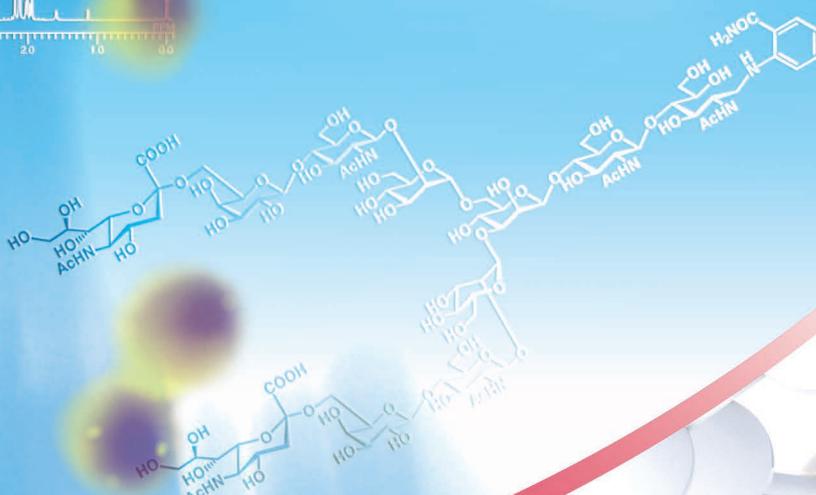
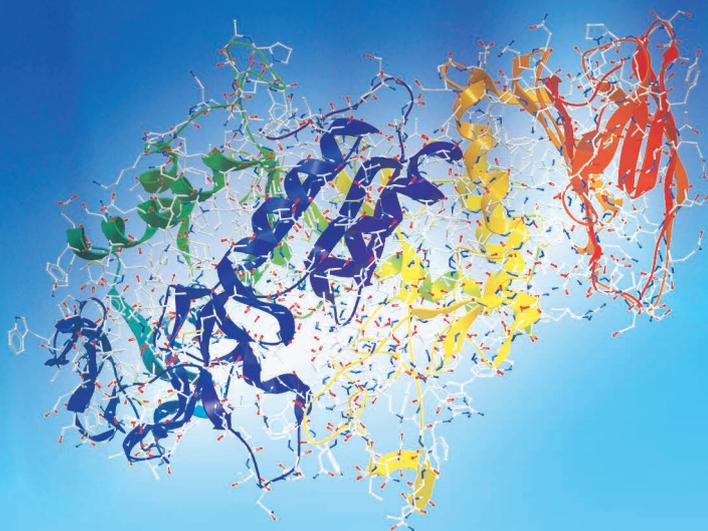
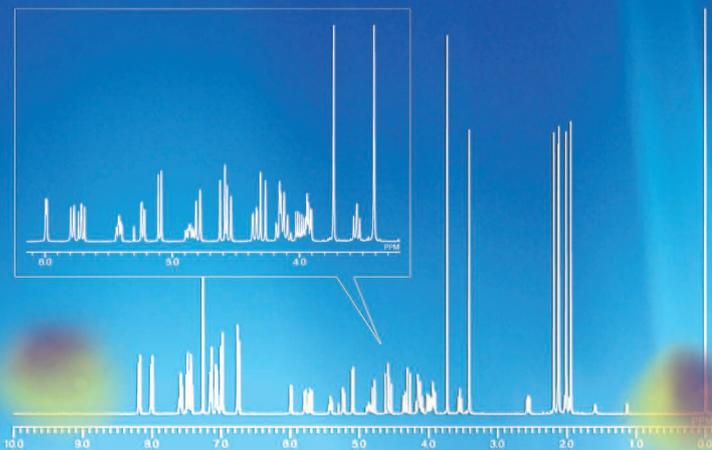


T C I



Reagents for

Glyco Chemistry & Biology

5th Edition

TOKYO CHEMICAL INDUSTRY CO., LTD.

Placing Your First Order

When placing your order

Orders can be placed on our TCI website (eShop)*, our TCI local offices or distributors.

TCI website (eShop)*

Easy online ordering is available on www.TCIchemicals.com for some markets. An eShop account is necessary to place your orders online. Please register yourself as a "MyTCI" member or consult our local offices.

**for limited markets only*

TCI local offices or distributors

Please contact TCI local offices or distributors listed on www.TCIchemicals.com. If you can't find a distributor in your country, please contact the TCI Global Business Department listed at the bottom of this page.

To place an order at TCI local offices, please provide the following information:

- **Product Number**
Consisting of one letter and four digits.
- **Packing Unit**
- **Quantity**
For large amounts, please contact us.

If you need a product which is not listed in the catalog

Please consult us if you cannot find the product you require. We will be pleased to provide a quotation based on custom synthesis.

When requesting a custom synthesis quote, please provide the following product information:

- **Name of compound**
- **Structure formula**
- **Required quantity**
- **Required Purity**
- **CAS number**
- **Any other information about this compound (Physical Data, Synthesis method, literature, etc.)**
- **Requested delivery time**

You can also send your requests online via our website. (www.TCIchemicals.com/custom/)

Contact Information

TOKYO CHEMICAL INDUSTRY CO., LTD.

TCI Global Business Department

Tel: +81-3-5640-8878 Fax: +81-3-5640-8902

E-mail: globalbusiness@TCIchemicals.com

4-10-2, Nihonbashi-Honcho, Chuo-ku, Tokyo 103-0023, Japan

TCI Local Offices

The business names and contact address are listed on page 469.

ご注文方法 (初めてご注文される方へ)

本カタログの収載製品をご購入の場合

試薬のご注文は、弊社製品取扱店経由で承っております

本カタログ p.470 ~ 477 に掲載されているお近くの弊社製品取扱店へご連絡ください。お支払い条件などは、取扱店とご相談ください。お近くに取扱店がない場合やご不明な点は、下記東京化成販売(株)営業部へお問い合わせください。

ご注文の際には、以下の内容をお申しつけください。

- **製品コード(例: A1231)**
アルファベット1文字と4桁の数字で1組です。本カタログでは、本文ページの製品名の左に記載されています。
- **包装単位**
本カタログに記載されている包装単位からご指定ください。
- **数量**
必要な本数をお知らせください。大量にご入用の場合もご相談ください。

本カタログに記載のない試薬をご入用の場合

本カタログに掲載されていない有機試薬につきましては、合成見積を承ります。お気軽にご相談ください。

見積りをご依頼の際には、以下の内容をお知らせください。

- **化合物名**
- **構造式**
- **必要量**
- **純度**
- **その他、化合物に関する情報**
(CAS番号、物性値、合成法、文献資料など)
- **納期**

ホームページでも受け付けています。
(www.TCIchemicals.com/ja/jp/custom-synthesis/)

お問い合わせは

東京化成販売株式会社

本社営業部 Tel: 03-3668-0489 Fax: 03-3668-0520
E-mail: sales@TCIchemicals.com

大阪営業部 Tel: 06-6228-1155 Fax: 06-6228-1158
E-mail: osaka-s@TCIchemicals.com

弊社製品取扱店 本カタログ p.470 ~ 477 をご覧ください。



TCI Glycoscience Online

糖鎖情報はウェブサイト

For more information on TCI Glycoscience, please visit our website.
 “糖鎖” ページでは、TCI の糖鎖製品や糖鎖関連の情報をご紹介します。

Monosaccharides and oligosaccharides
 単糖からオリゴ糖を構造別にご紹介

Find antibodies, enzymes, and more
 抗体や酵素など、糖鎖関連試薬情報も掲載

Custom Synthesis for sugar blocks and functional oligosaccharides
 糖ブロックや機能性糖鎖の受託合成のご紹介

Download our Glyco product brochures
 糖鎖関連製品のパンフレットがダウンロード可能



www.TCIchemicals.com/glyco/



Table of Contents

TCI Website / ホームページのご案内	1
Table of Contents / 目次	2
The Functional Oligosaccharide Chains / 機能性糖鎖	4
Catalog Usage · Abbreviations Used in the Catalog / 凡例 · 略号一覧	8
Carbohydrates / 糖	
Allose	9
Arabinose	10
Erythrose	12
Fructose	13
Fucose.....	14
Galactose	16
Galactosamine.....	24
Glucose	26
Glucosamine.....	42
Glucuronic Acid	48
Gulose	50
Idose.....	51
Inositol	52
Lyxose.....	54
Mannose.....	55
Mannosamine	60
Psicose	61
Rhamnose	62
Ribose	63
Sialic Acid	66
Sorbose	69
Tagatose.....	70
Talose	71
Xylose	72
Disaccharide.....	74
Trisaccharide	88
Tetrasaccharide	95
Oligosaccharide.....	99
Cyclodextrin.....	107
Polysaccharide	111
Others.....	119
Reagents for Oligosaccharide Synthesis / 糖鎖合成用反応剤	126
The Industrial Production of Oligosaccharides by TCI / TCI の実用化を指向した工業的糖鎖製造.....	150
Chemosynthesis of Sialoside / シアロ糖鎖の化学合成	151
Applications for Sugar-conjugates / 糖鎖コンジュゲートへの応用	152
N-Glycan / Labeled N-Glycan based on Chemical Synthesis / 化学合成技術を基盤とした N 型糖鎖 · 標識化 N 型糖鎖	153

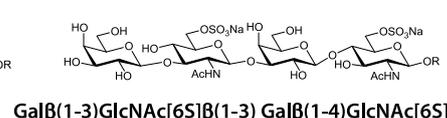
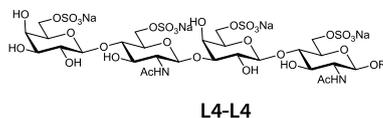
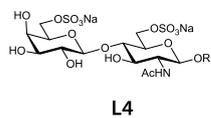
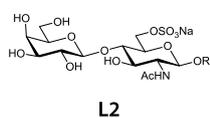
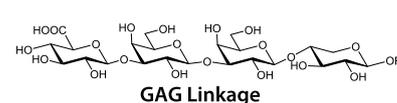
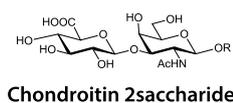
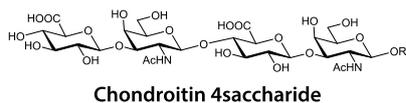
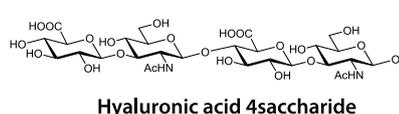
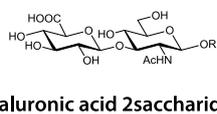
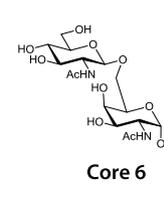
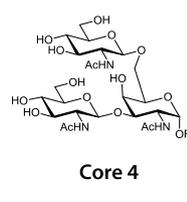
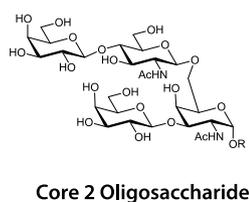
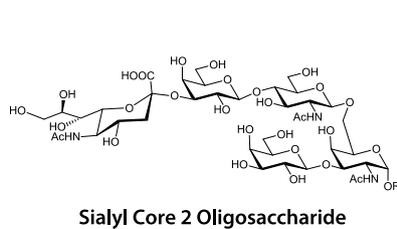
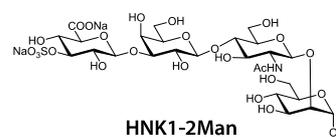
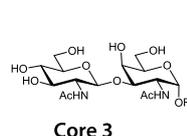
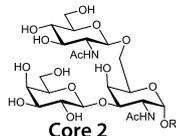
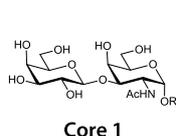
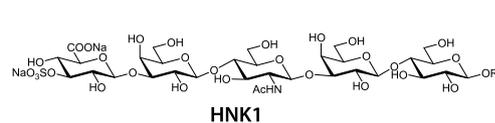
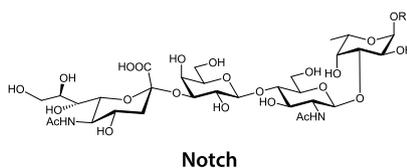
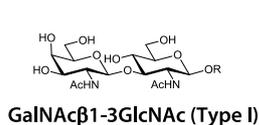
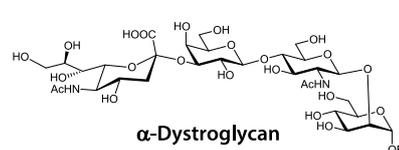
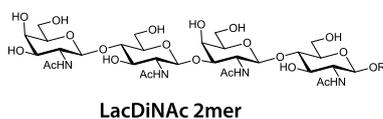
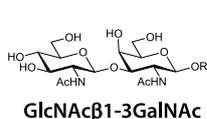
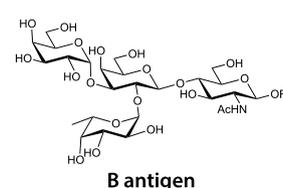
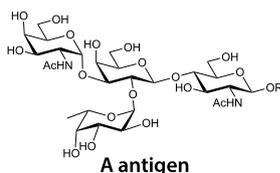
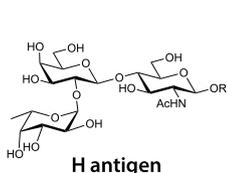
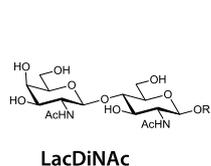
Enzymes / 酵素	
Glycosynthase (Endo-M-N175Q)	156
Endo-M	158
Oligosaccharide Replacement of a Therapeutic Antibody by using Endo-M and Glycosynthase	159
Endo- α	162
Glycohydrolase	164
Lectin, Fucose Specific / L-フコース特異的レクチン	166
Antibodies / 抗体	
Anti-glyco Antibodies / 抗糖鎖抗体	168
Anti-αGal Polyclonal Antibody / 抗αGal ポリクローナル抗体	171
Anti-glyco Antibody	172
Secondary Antibody	177
Protein A	180
Related Products for Immunological Research	181
NMR Data / NMR データ	185
Product Name Index / 製品名索引	449
Appendix / 付録	
Basic Structures of Glycolipids / 糖脂質の基本構造	460
Basic Structures of Glycoproteins / 糖タンパク質の基本構造	461
Basic Structures of Proteoglycans / プロテオグリカンの基本構造	462
The Physical Properties of the Typical Organic Solvents · Freezing Mixtures / おもな有機溶剤の物性 · 冷却剤とその最低温度	463
Preparation of Reagents and Solutions / おもな試薬溶液の調製法	464
Pressure-Temperature Nomograph / 沸点換算図表	468
TCI Local Offices / 海外事業所	469
TCI Distributors / 弊社製品取扱店一覧	470
General Information / 試薬のご購入, ご使用時の注意	478

The Functional Oligosaccharide Chains-①

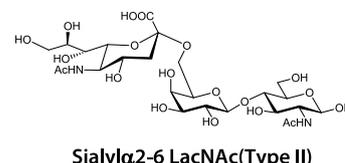
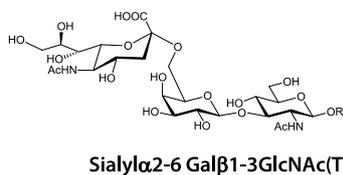
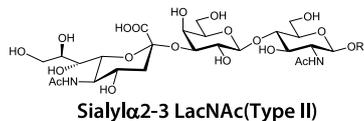
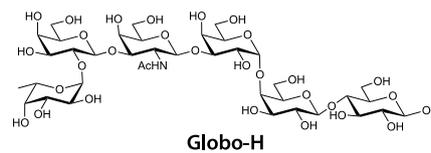
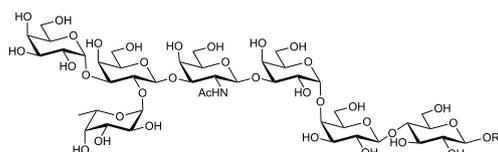
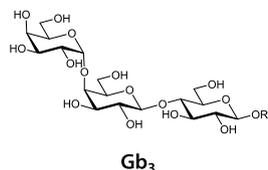
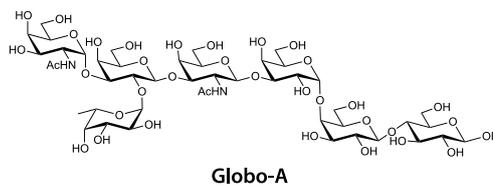
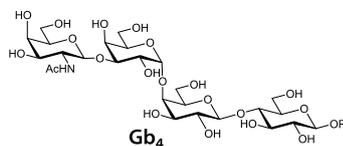
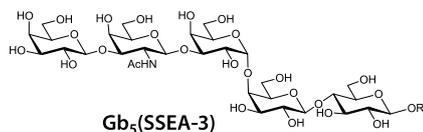
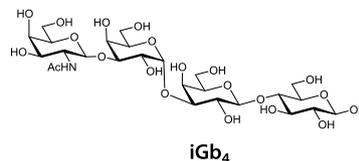
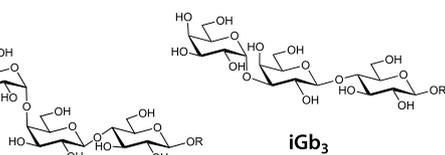
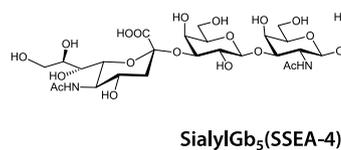
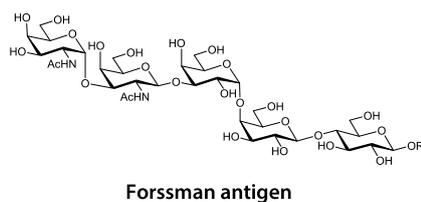
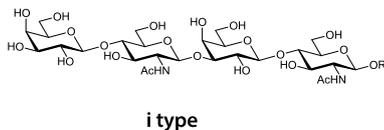
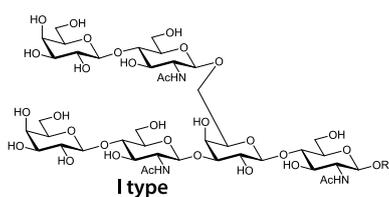
The following structures are examples of functional oligosaccharide chains synthesized by TCI. If your research calls for various modifications to oligosaccharide chains with aglycon (R part), our team can assist you. If you require any sugar chains not listed here, please contact us. For more details, please see the inside back cover.

以下は、ご提供可能な機能性糖鎖の一例です。アグリコン (R部分) につきましては、様々な修飾に対応します。掲載されていない糖鎖につきましても、ぜひお問い合わせください。

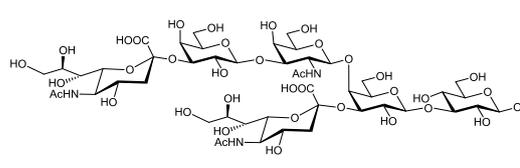
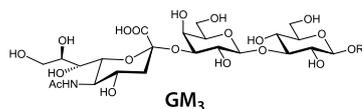
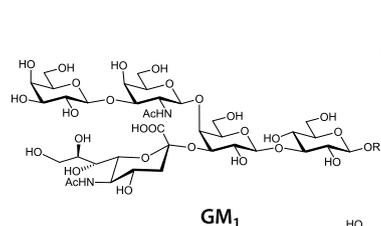
機能性糖鎖以外にも、糖鎖合成中間体などの糖鎖合成委託をご検討の場合は、お気軽にご連絡・ご相談ください。詳細は、最終ページでご紹介しています。



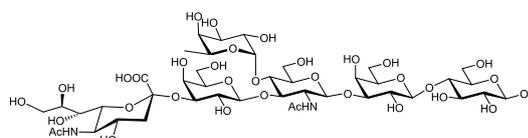
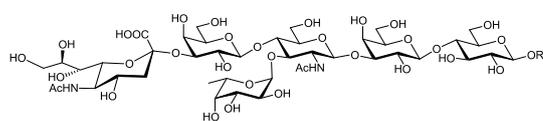
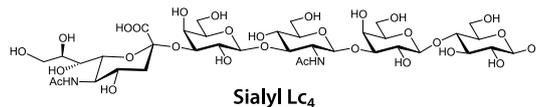
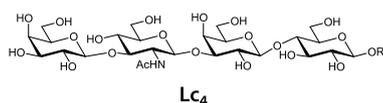
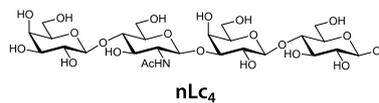
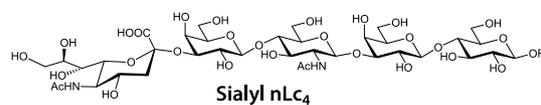
The Functional Oligosaccharide Chains-②



Sialylα2-3 Galβ1-3GlcNAc (Type I)



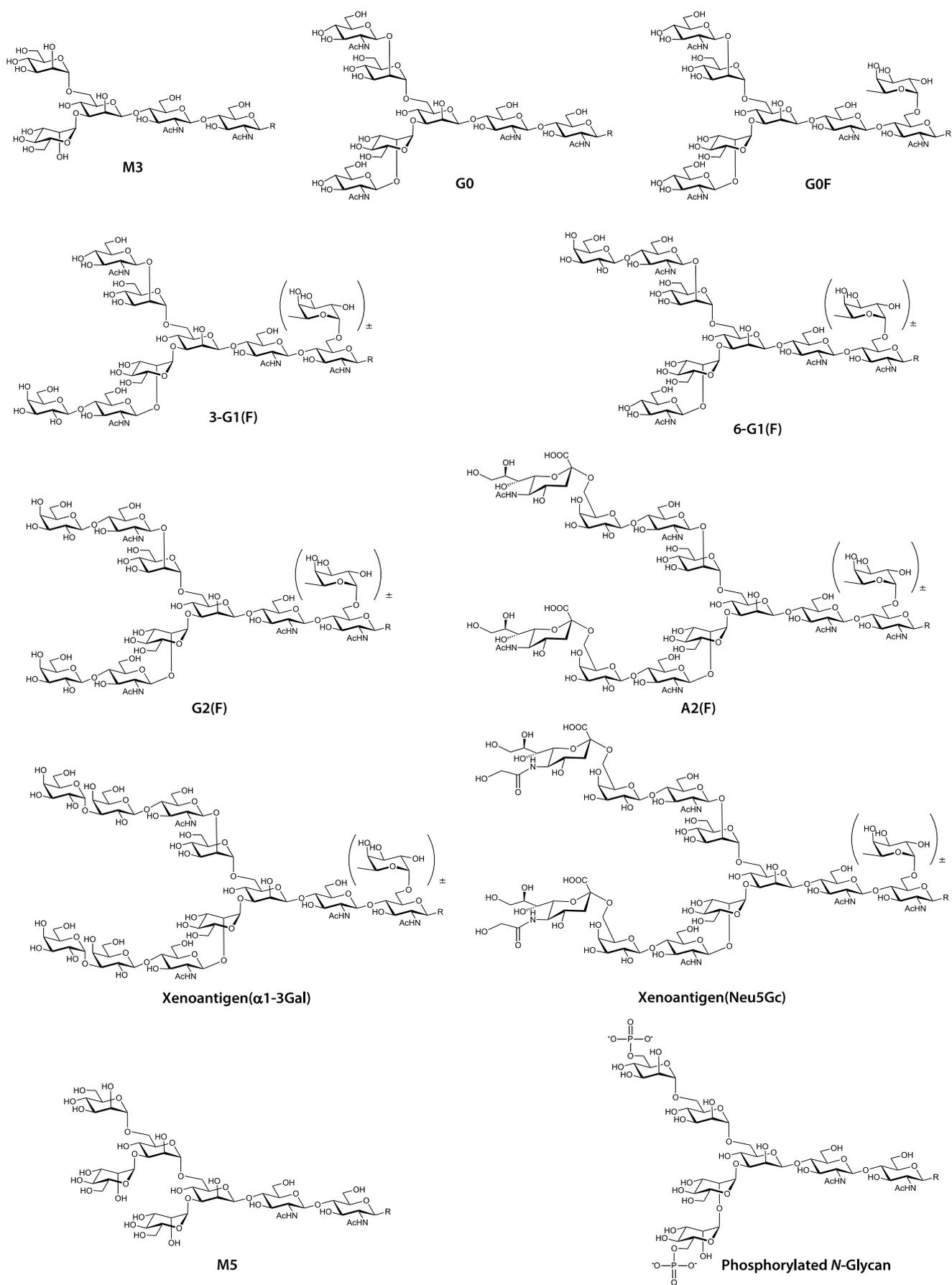
GM₁



Sialyl Le^x (Sialyl SSEA-1)

Sialyl Le^a

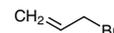
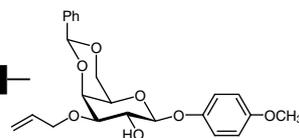
The Functional Oligosaccharide Chains-③



**Reagents for
Glyco Chemistry
& Biology**

糖鎖関連試薬

1 — M1589	2 — 4-Methoxyphenyl 3-O-Allyl-4,6-O-benzylidene-β-D-galactopyranoside	1g	5g	7
	>98.0%(HPLC) C ₂₃ H ₂₆ O ₇ = 414.45 [400091-05-6] MFCD06797132			
	mp 228°C	3	4	5
	14 NMR P.140			6
				8
B0643	Allyl Bromide		25g	500g
9 —	>98.0%(GC) C ₃ H ₅ Br = 120.98 [106-95-6] MFCD00000244			10
	(bp 71°C d 1.43 flp 12°C)			
11 —	Beil. 1,201 MI14-288	RTECS UC7090000		
		12		
A1651	endo-β-N-Acetylglucosaminidase (= Endo-M) Recombinant: from <i>Mucor hiemalis</i> expressed in <i>Candida boidinii</i> [Purity: single band by SDS-PAGE(85KDa)]			1vial
	[37278-88-9] MFCD00151069 EC 3.2.1.96			13



- 1** Product Number Please use the product number with the chemical name when inquiring and ordering.
- 2** Chemical Name
- 3** Molecular Formula
- 4** Molecular Weight
- 5** CAS Registry Number (Chemical Abstracts Service Registry Number)
- 6** MDL Number*
- 7** Quantity
- 8** Structural Formula
- 9** Purity
- 10** Physical Property
fp : freezing point(°C) / mp : melting point(°C) / bp : boiling point(°C) / d : specific gravity / flp : flash point(°C)
from literature, and not necessarily product specification.
- 11** References
Beil. : Beilstein(vol. (suppl.) part, page) / MI14 : Monograph Number from "The Merck Index", 14th edition** / F&F : Fieser & Fieser's "Reagents for Organic Synthesis"; vol., page
- 12** RTECS Number (Registry of Toxic Effects of Chemical Substances Number)
- 13** EC Number (Enzyme Commission Number)
- 14** NMR NMR data are prepared.

- 1** 製品コード ご注文の際にご利用ください。
- 2** 製品名
- 3** 分子式
- 4** 分子量
- 5** CAS 番号 (Chemical Abstracts Service Registry Number)
- 6** MDL 番号*
- 7** 包装単位
- 8** 構造式
- 9** 純度・含量
- 10** 物理的性質
fp : 凝固点 (°C) / mp : 融点 (°C) / bp : 沸点 (°C) / d : 比重 / flp : 引火点 (°C)
参考値として記載しました。規格値ではありません。
- 11** 参考文献
Beil. : Beilstein (巻数 (増補編) パート, 頁) / MI14 : Merck Index 14th edition** モノグラフ番号 / F&F : Fieser & Fieser (巻数, 頁)
- 12** RTECS 番号 (化学物質毒性登録番号(米国))
- 13** 酵素番号
- 14** NMR NMR データをご用意しております。

*Reproduced with license of MDL® Available Chemicals Directory.
**Reproduced with permission from The Merck Index, Fourteenth Edition.
Copyright © 2006 by Merck & Co., Inc., Whitehouse Station, NJ, USA.
All rights reserved.

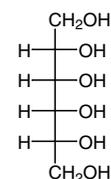
<< Abbreviations Used in the Catalog >>

Ac	acetyl	MP	4-methoxyphenyl
All	allyl	Ph	phenyl
Bn	benzyl	pNP	p-nitrophenyl
Boc	tert-butoxycarbonyl	SDS-PAGE	sodium dodecylsulfate-polyacrylamide gel electrophoresis
Bz	benzoyl		
Fmoc	(9H-fluoren-9-ylmethoxy)carbonyl		

A1982 Allitol

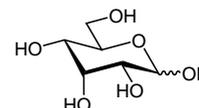
100mg

>98.0%(GC) $C_6H_{14}O_6 = 182.17$ [488-44-8]
 mp 152°C
 Beil. 1(4)2839 RTECS BA1840000

**A1488 D-(+)-Allose**

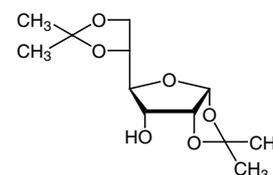
100mg 1g

>98.0%(HPLC) $C_6H_{12}O_6 = 180.16$ [2595-97-3] MFCD00135833
 mp 149°C
 Beil. 1(4)4299 MI14-280

**D2265 1,2:5,6-Di-O-isopropylidene- α -D-allofuranose**

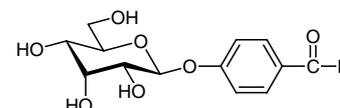
1g 5g

>98.0%(GC) $C_{12}H_{20}O_6 = 260.29$ [2595-05-3] MFCD00135634
 mp 75°C
 Beil. 19(5)12,318

**F0542 4-Formylphenyl β -D-Allopyranoside**

5g

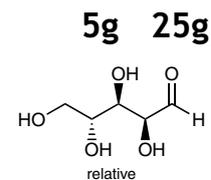
>98.0%(HPLC) $C_{13}H_{16}O_7 = 284.26$ [80154-34-3]
 mp 190°C



Arabinose-①

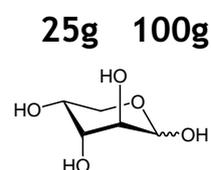
New **A0514** DL-Arabinose

>98.0%(HPLC) C₅H₁₀O₅ = 150.13 [147-81-9] MFCD00135867
mp 158°C
Beil. 1(4)4223



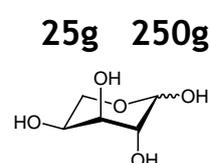
A0513 D-(-)-Arabinose

>99.0%(HPLC) C₅H₁₀O₅ = 150.13 [10323-20-3] MFCD00135608
mp 161°C
Beil. 1(4)4215



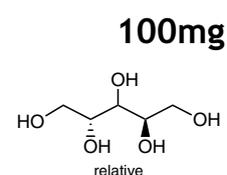
A0515 L-(+)-Arabinose

>98.0%(GC) C₅H₁₀O₅ = 150.13 [5328-37-0] MFCD00135866
mp 156°C
Beil. 1(4)4218 MI14-761



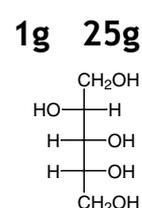
A0517 DL-Arabitol

>97.0%(GC) C₅H₁₂O₅ = 152.15 [2152-56-9] MFCD00070503
Beil. 1(4)2832 MI14-762



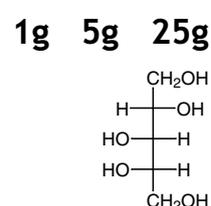
A0516 D-(+)-Arabitol

>98.0%(GC) C₅H₁₂O₅ = 152.15 [488-82-4] MFCD00004709
mp 103°C
Beil. 1(4)2832 MI14-762



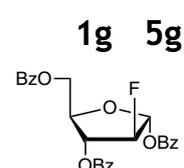
A0518 L-(-)-Arabitol

>97.0%(GC) C₅H₁₂O₅ = 152.15 [7643-75-6] MFCD00064290
mp 103°C
Beil. 1(4)2832 MI14-762



New **D4594** 2-Deoxy-2-fluoro-1,3,5-tri-O-benzoyl- α -D-arabinofuranose

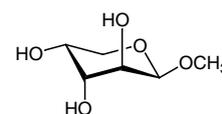
>98.0%(GC) C₂₆H₂₁FO₇ = 464.45 [97614-43-2] MFCD00083339
mp 85°C



M1019 Methyl β-D-Arabinopyranoside

100mg

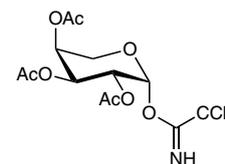
>99.0%(GC) C₆H₁₂O₅ = 164.16 [5328-63-2] MFCD00063261
mp 174°C

**T2695 2,3,4-Tri-O-acetyl-β-L-arabinopyranosyl
2,2,2-Trichloroacetimidate**

Price on request

C₁₃H₁₆Cl₃NO₈ = 420.62 [869848-87-3]

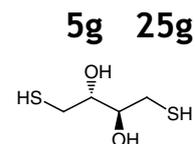
NMR P.198



Erythrose

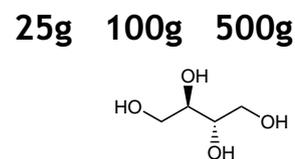
D1320 Dithioerythritol

>98.0%(T) $C_4H_{10}O_2S_2 = 154.24$ [6892-68-8] MFCD00063750
mp 84°C
Beil. 2(3)2360 RTECS KF2410000



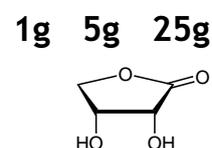
E0021 meso-Erythritol

>99.0%(HPLC)(T) $C_4H_{10}O_4 = 122.12$ [149-32-6] MFCD00004710
mp 120°C
Beil. 1,525 MI14-3675 RTECS KF2000000



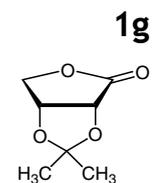
E0455 D-Erythronolactone

>98.0%(GC) $C_4H_6O_4 = 118.09$ [15667-21-7] MFCD00077763
mp 103°C
Beil. 18,78



I0454 2,3-O-Isopropylidene-D-erythronolactone

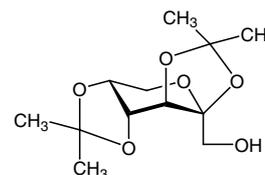
>98.0%(GC) $C_7H_{10}O_4 = 158.15$ [25581-41-3] MFCD00134440
mp 68°C
Beil. 19(5)10,235



D3758 2,3:4,5-Di-O-isopropylidene- β -D-fructopyranose

>98.0%(GC) $C_{12}H_{20}O_6 = 260.29$ [20880-92-6] MFCD00022183
 mp 96°C
 Beil. 19(4)6124

5g 25g

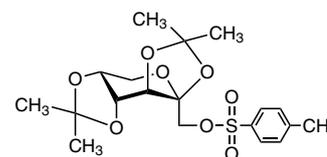


New

D5395 2,3:4,5-Di-O-isopropylidene-1-O-p-toluenesulfonyl-beta-D-fructopyranose

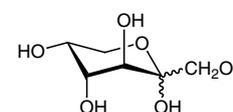
$C_{19}H_{26}O_8S = 414.47$ [78574-35-3] MFCD21496270
 mp 83°C
 NMR P.199

Price on request

**F0060 D-(-)-Fructose**

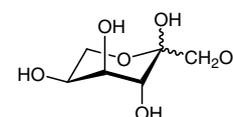
>99.0%(HPLC) $C_6H_{12}O_6 = 180.16$ [57-48-7] MFCD00148910
 Beil. 31,321 MI14-4273 RTECS LS7120000

25g 500g

**F0317 L-(+)-Fructose**

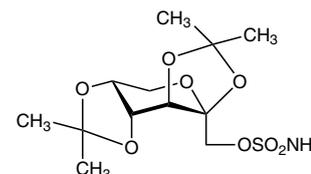
>95.0%(HPLC) $C_6H_{12}O_6 = 180.16$ [7776-48-9] MFCD05662378

100mg 1g

**T2755 Topiramate**

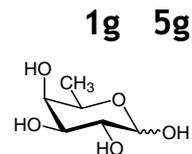
>98.0%(HPLC)(T) $C_{12}H_{21}NO_8S = 339.36$ [97240-79-4] MFCD00865320
 mp 126°C
 MI14-9547 RTECS LS7083000

1g 5g



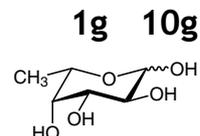
D0049 D-(+)-Fucose

>98.0%(HPLC) C₆H₁₂O₅ = 164.16 [3615-37-0] MFCD00135603
 mp 137°C
 Beil. 31,76 MI14-4278



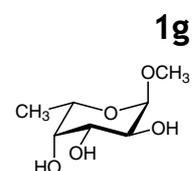
F0065 L-(-)-Fucose

>97.0%(HPLC) C₆H₁₂O₅ = 164.16 [2438-80-4] MFCD00135607
 Beil. 31,78 MI14-4279



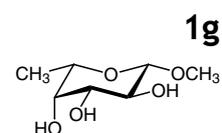
M1051 Methyl α-L-Fucopyranoside

>98.0%(HPLC) C₇H₁₄O₅ = 178.18 [14687-15-1] MFCD00069802
 mp 159°C



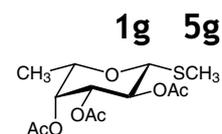
M1050 Methyl β-L-Fucopyranoside

C₇H₁₄O₅ = 178.18 [24332-98-7] MFCD00069803
 mp 123°C



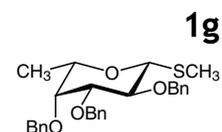
M1626 Methyl 2,3,4-Tri-O-acetyl-1-thio-β-L-fucopyranoside

>98.0%(HPLC) C₁₃H₂₀O₇S = 320.36 [84635-54-1] MFCD00080803
 mp 148°C
 NMR P.200



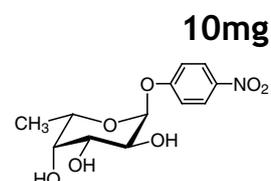
M1628 Methyl 2,3,4-Tri-O-benzyl-1-thio-β-L-fucopyranoside

>95.0%(HPLC) C₂₈H₃₂O₄S = 464.62 [107802-80-2] MFCD06797141
 mp 58°C
 NMR P.201



N0392 4-Nitrophenyl α-L-Fucopyranoside

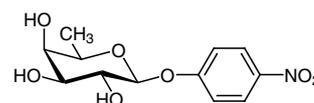
>98.0%(HPLC) C₁₂H₁₅NO₇ = 285.25 [10231-84-2] MFCD00063697



N0774 4-Nitrophenyl β -D-Fucopyranoside

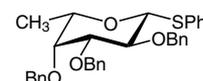
100mg

>98.0%(GC) $C_{12}H_{15}NO_7 = 285.25$ [1226-39-7]
mp 184°C

**P1842 Phenyl 2,3,4-Tri-O-benzyl-1-thio- β -L-fucopyranoside**

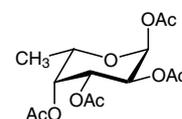
1g 5g

>98.0%(HPLC) $C_{33}H_{34}O_4S = 526.69$ [167612-35-3]
mp 108°C

**T2207 1,2,3,4-Tetra-O-acetyl- α -L-fucopyranose**

1g 5g

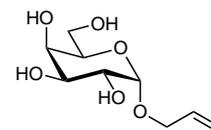
>98.0%(HPLC) $C_{14}H_{20}O_9 = 332.31$ [64913-16-2] MFCD00069791
mp 94°C
Beil. 17(3/4)2549



New A2346 Allyl α -D-Galactopyranoside

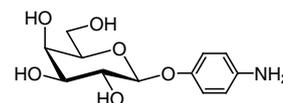
1g

>96.0%(GC) $C_9H_{16}O_6 = 220.22$ [48149-72-0] MFCD01320362
 mp 145°C
 Beil. 17(4)2939

**A1413 4-Aminophenyl β -D-Galactopyranoside**

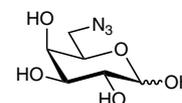
1g

>98.0%(HPLC) $C_{12}H_{17}NO_6 = 271.27$ [5094-33-7] MFCD00067362
 mp 163°C
 Beil. 17(3/4)3409

**New A3167 6-Azido-6-deoxy-D-galactopyranose**

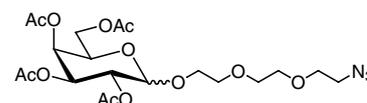
Price on request

$C_6H_{11}N_3O_5 = 205.17$ [66927-03-5] MFCD03265529
 NMR P.202

**G0257 2-[2-(2-Azidoethoxy)ethoxy]ethyl
2,3,4,6-Tetra-O-acetyl-
D-galactopyranoside**

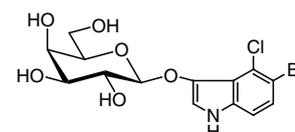
1g 5g

>95.0%(N) $C_{20}H_{31}N_3O_{12} = 505.48$ [381716-33-2] MFCD00191441

**B3201 5-Bromo-4-chloro-3-indolyl
 β -D-Galactopyranoside
[for Biochemical Research]**

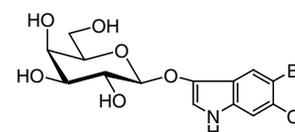
200mg 1g

>98.0%(HPLC)(N) $C_{14}H_{15}BrClNO_6 = 408.63$ [7240-90-6] MFCD00005666
 MI14-10074

**B3469 5-Bromo-6-chloro-3-indolyl
 β -D-Galactopyranoside (contains ca. 10%
Ethyl Acetate) [for Biochemical Research]**

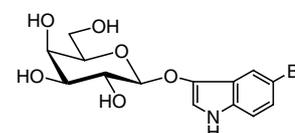
20mg 100mg

>98.0%(HPLC) $C_{14}H_{15}BrClNO_6 = 408.63$ [93863-88-8] MFCD00210022

**B3470 5-Bromo-3-indolyl
 β -D-Galactopyranoside
[for Biochemical Research]**

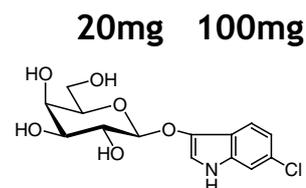
20mg 100mg

>98.0%(HPLC) $C_{14}H_{16}BrNO_6 = 374.19$ [97753-82-7] MFCD00063691



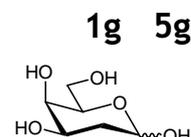
**C2371 6-Chloro-3-indolyl
β-D-Galactopyranoside**
[for Biochemical Research]

>98.0%(HPLC) C₁₄H₁₆ClNO₆ = 329.73 [138182-21-5] MFCD00467206



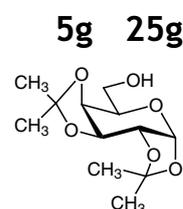
D0050 2-Deoxy-D-galactose

>98.0%(HPLC) C₆H₁₂O₅ = 164.16 [1949-89-9] MFCD00014649
mp 112°C



**D2555 1,2:3,4-Di-O-isopropylidene-
α-D-galactopyranose**

>92.0%(GC) C₁₂H₂₀O₆ = 260.29 [4064-06-6] MFCD00063225
bp 133°C /0.2mmHg
Beil. 19(5)12,366

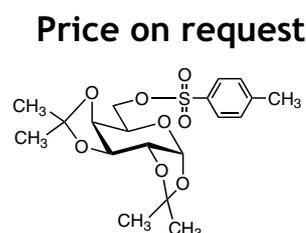


New

**D5458 1,2:3,4-Di-O-isopropylidene-
6-O-(p-toluenesulfonyl)-
α-D-galactopyranose**

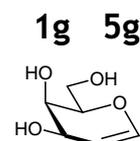
C₁₉H₂₆O₈S = 414.47 [4478-43-7] MFCD07367501
mp 92°C

NMR P.203



G0273 D-Galactal

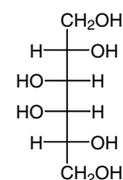
>98.0%(HPLC) C₆H₁₀O₄ = 146.14 [21193-75-9] MFCD00038067
Beil. 17(5)5,698



G0005 Galactitol

>98.0%(GC) C₆H₁₄O₆ = 182.17 [608-66-2] MFCD00064288
mp 189°C
Beil. 1,544 MI14-4332

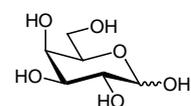
25g 250g



G0008 D-(+)-Galactose Anhydrous

>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [59-23-4] MFCD00151230
Beil. 1(4)4336 MI14-4335 RTECS LW5490000

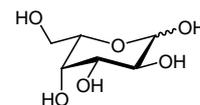
25g 100g 500g



G0267 L-(-)-Galactose

100mg 500mg

>98.0%(HPLC) $C_6H_{12}O_6 = 180.16$ [15572-79-9] MFCD00063833
Beil. 1(4)4343

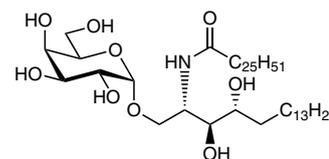


New

G0509 α -Galactosylceramide

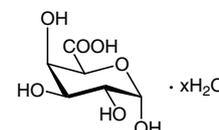
Price on request

$C_{50}H_{99}NO_9 = 858.34$ [158021-47-7] MFCD00939559
mp 190°C

**G0010 α -D-Galacturonic Acid Hydrate**

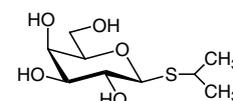
5g 25g

>95.0%(T) $C_6H_{10}O_7 \cdot xH_2O = 194.14(\text{Anh})$ [91510-62-2] MFCD00006618
Beil. 3(4)2000 MI14-4337

**I0328 Isopropyl 1-Thio- β -D-galactopyranoside**

1g 5g

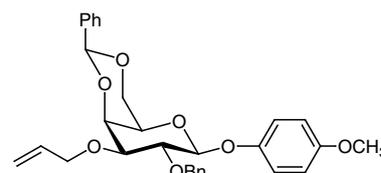
>98.0%(GC) $C_9H_{18}O_5S = 238.30$ [367-93-1] MFCD00063273
MI14-5082

**M1620 4-Methoxyphenyl 3-O-Allyl-2-O-benzyl-4,6-O-benzylidene-beta-D-galactopyranoside**

1g

>98.0%(HPLC) $C_{30}H_{32}O_7 = 504.58$ MFCD06797140
mp 177°C

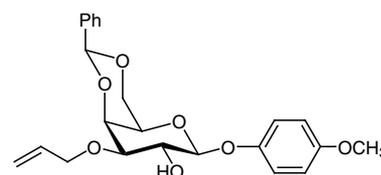
NMR P.204

**M1589 4-Methoxyphenyl 3-O-Allyl-4,6-O-benzylidene-beta-D-galactopyranoside**

1g 5g

>98.0%(HPLC) $C_{23}H_{26}O_7 = 414.45$ [400091-05-6] MFCD06797132
mp 228°C

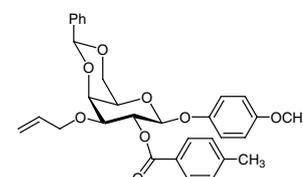
NMR P.205

**M1590 4-Methoxyphenyl 3-O-Allyl-4,6-O-benzylidene-2-O-(4-methylbenzoyl)-beta-D-galactopyranoside**

1g

>98.0%(HPLC) $C_{31}H_{32}O_8 = 532.59$ MFCD06797133

NMR P.206

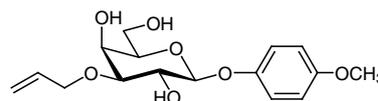


M1482 4-Methoxyphenyl 3-O-Allyl- β -D-galactopyranoside

5g

>98.0%(HPLC) $C_{16}H_{22}O_7 = 326.35$ [144985-19-3] MFCD06797127
mp 143°C

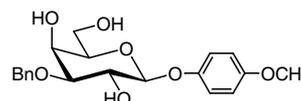
NMR P.207

**M1725 4-Methoxyphenyl 3-O-Benzyl- β -D-galactopyranoside**

1g 5g

>98.0%(HPLC) $C_{20}H_{24}O_7 = 376.41$ [383905-60-0]
mp 154°C

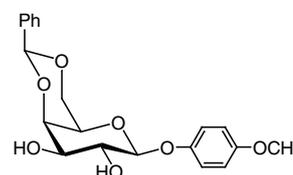
NMR P.208

**M1710 4-Methoxyphenyl 4,6-O-Benzylidene- β -D-galactopyranoside**

Price on request

$C_{20}H_{22}O_7 = 374.39$ [176299-96-0]

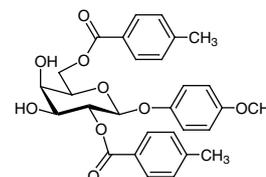
NMR P.209

**M1597 4-Methoxyphenyl 2,6-Bis-O-(4-methylbenzoyl)- β -D-galactopyranoside**

1g

>98.0%(HPLC) $C_{29}H_{30}O_9 = 522.55$ MFCD06797138
mp 205°C

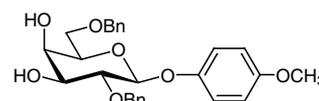
NMR P.210

**M1634 4-Methoxyphenyl 2,6-Di-O-benzyl- β -D-galactopyranoside**

1g 5g

>98.0%(HPLC) $C_{27}H_{30}O_7 = 466.53$ [159922-50-6] MFCD06797145
mp 113°C

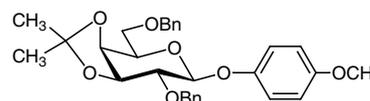
NMR P.211

**M1633 4-Methoxyphenyl 2,6-Di-O-benzyl-3,4-O-isopropylidene- β -D-galactopyranoside**

1g 5g

>98.0%(HPLC) $C_{30}H_{34}O_7 = 506.60$ [159922-68-6] MFCD06797144
mp 105°C

NMR P.212

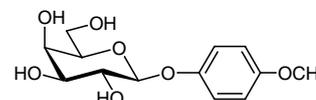
**M1481 4-Methoxyphenyl β -D-Galactopyranoside**

5g 25g

>98.0%(HPLC) $C_{13}H_{18}O_7 = 286.28$ [3150-20-7] MFCD06797126
mp 160°C

Beil. 17(3/4)2984

NMR P.213



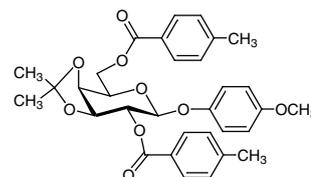
M1596 4-Methoxyphenyl 3,4-O-Isopropylidene-2,6-bis-O-(4-methylbenzoyl)-β-D-galactopyranoside

1g

>95.0%(HPLC) C₃₂H₃₄O₉ = 562.62 [1496536-69-6] MFCD06797137

mp 160°C

NMR P.214

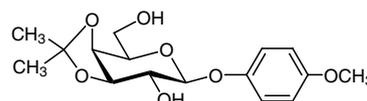
**M1593 4-Methoxyphenyl 3,4-O-Isopropylidene-β-D-galactopyranoside**

1g 5g

>98.0%(HPLC) C₁₆H₂₂O₇ = 326.35 [159922-67-5] MFCD06797135

mp 151°C

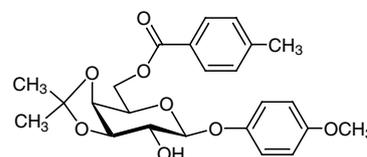
NMR P.215

**M1594 4-Methoxyphenyl 3,4-O-Isopropylidene-6-O-(4-methylbenzoyl)-β-D-galactopyranoside**

1g

>98.0%(HPLC) C₂₄H₂₈O₈ = 444.48 MFCD06797136

NMR P.216

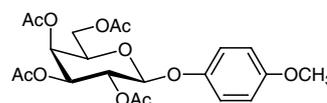
**M1477 4-Methoxyphenyl 2,3,4,6-Tetra-O-acetyl-β-D-galactopyranoside**

5g 25g

>98.0%(HPLC) C₂₁H₂₆O₁₁ = 454.43 [2872-65-3] MFCD06797123

mp 105°C

NMR P.217

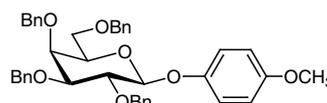
**M1588 4-Methoxyphenyl 2,3,4,6-Tetra-O-benzyl-β-D-galactopyranoside**

5g

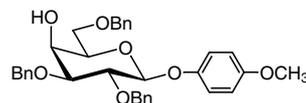
>98.0%(HPLC) C₄₁H₄₂O₇ = 646.78 [143536-99-6] MFCD06797131

mp 110°C

NMR P.218

**M2104 4-Methoxyphenyl 2,3,6-Tri-O-benzyl-β-D-galactopyranoside**

Price on request

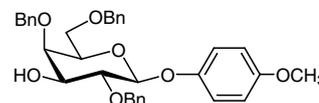
C₃₄H₃₆O₇ = 556.66 [869107-36-8]**M1592 4-Methoxyphenyl 2,4,6-Tri-O-benzyl-β-D-galactopyranoside**

1g

>98.0%(HPLC) C₃₄H₃₆O₇ = 556.66 [247027-79-8] MFCD06797134

mp 94°C

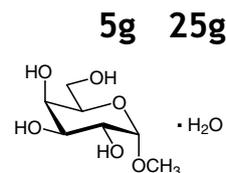
NMR P.219



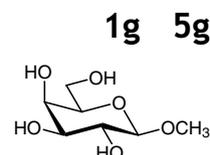
M1047 Methyl α -D-Galactopyranoside

Monohydrate

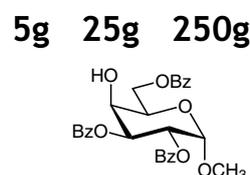
>98.0%(GC) $C_7H_{14}O_6 \cdot H_2O = 194.18$ (Anh) [34004-14-3] MFCD00064085
mp 108°C

**M1035 Methyl β -D-Galactopyranoside**

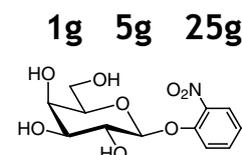
>98.0%(GC) $C_7H_{14}O_6 = 194.18$ [1824-94-8] MFCD00064357
mp 178°C
Beil. 31,315

**M1933 Methyl 2,3,6-Tri-O-benzoyl- α -D-galactopyranoside**

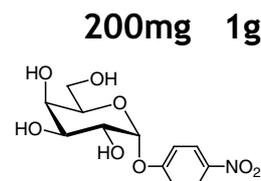
>98.0%(HPLC) $C_{28}H_{26}O_9 = 506.51$ [3601-36-3] MFCD06200842
mp 143°C
NMR P.220

**N0418 2-Nitrophenyl β -D-Galactopyranoside**
[Substrate for β -D-Galactosidase]

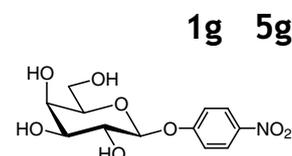
>98.0%(HPLC) $C_{12}H_{15}NO_8 = 301.25$ [369-07-3] MFCD00063255

**N0492 4-Nitrophenyl α -D-Galactopyranoside**
[Substrate for α -D-Galactosidase]

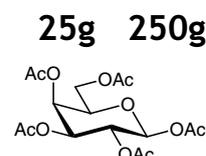
>98.0%(HPLC) $C_{12}H_{15}NO_8 = 301.25$ [7493-95-0] MFCD00065050
mp 168°C

**N0616 4-Nitrophenyl β -D-Galactopyranoside**
[Substrate for β -Galactosidase]

>98.0%(HPLC) $C_{12}H_{15}NO_8 = 301.25$ [3150-24-1] MFCD00063256
mp 180°C
Beil. 17(5)7,55

**G0247 Penta-O-acetyl- β -D-galactopyranose**

>97.0%(GC) $C_{16}H_{22}O_{11} = 390.34$ [4163-60-4] MFCD00063259
mp 145°C
Beil. 17(5)7,322



New

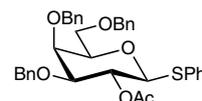
P2078 Phenyl 2-O-Acetyl-3,4,6-tri-O-benzyl-1-thio-β-D-galactopyranoside

1g

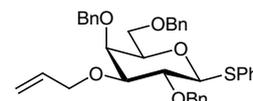
C₃₅H₃₆O₆S = 584.73 [183875-28-7]

mp 111°C

NMR P.221

**P1660 Phenyl 3-O-Allyl-2,4,6-tri-O-benzyl-1-thio-β-D-galactopyranoside**

1g

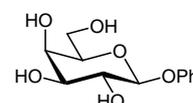
>98.0%(HPLC) C₃₆H₃₈O₅S = 582.76 [1017587-57-3]**P1326 Phenyl β-D-Galactopyranoside**

1g 5g

>98.0%(HPLC) C₁₂H₁₆O₆ = 256.25 [2818-58-8] MFCD00063258

mp 148°C

Beil. 17(5)7,47

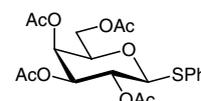
**P1477 Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio-β-D-galactopyranoside**

5g 25g

>98.0%(HPLC) C₂₀H₂₄O₉S = 440.46 [24404-53-3]

mp 70°C

NMR P.222

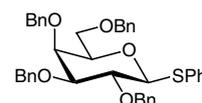
**P1679 Phenyl 2,3,4,6-Tetra-O-benzyl-1-thio-β-D-galactopyranoside**

1g

>98.0%(HPLC) C₄₀H₄₀O₅S = 632.82 [74801-29-9] MFCD06657856

mp 88°C

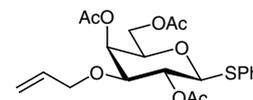
NMR P.223

**P1680 Phenyl 2,4,6-Tri-O-acetyl-3-O-allyl-1-thio-β-D-galactopyranoside**

1g

>98.0%(HPLC) C₂₇H₂₆O₈S = 438.49

NMR P.224

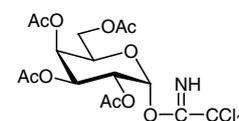
**T2295 2,3,4,6-Tetra-O-acetyl-α-D-galactopyranosyl 2,2,2-Trichloroacetimidate**

1g 5g

>95.0%(HPLC) C₁₆H₂₀Cl₃NO₁₀ = 492.68 [86520-63-0] MFCD07369652

mp 122°C

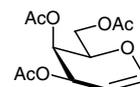
NMR P.225



T1734 Tri-O-acetyl-D-galactal

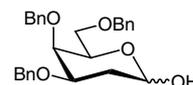
>95.0%(GC) $C_{12}H_{16}O_7 = 272.25$ [4098-06-0] MFCD00064092
Beil. 17(5)5,700

1g 5g

**T1932 3,4,6-Tri-O-benzyl-2-deoxy-D-galactopyranose**

>98.0%(HPLC) $C_{27}H_{30}O_5 = 434.53$ [94189-64-7] MFCD06797169

100mg

**T1935 6-O-(Triisopropylsilyl)-D-galactal**

>97.0%(GC) $C_{15}H_{30}O_4Si = 302.49$ [166021-01-8]

200mg

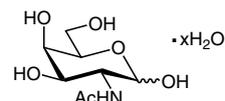


Galactosamine-①

A1245 N-Acetyl-D-galactosamine Hydrate

1g 5g

>98.0%(HPLC)(N) $C_8H_{15}NO_6 \cdot xH_2O = 221.21(\text{Anh})$ [14215-68-0] MFCD00065372
Beil. 4(4)2039

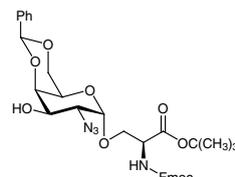


A1833 O-(2-Azido-4,6-O-benzylidene-2-deoxy- α -D-galactopyranosyl)-N-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-serine tert-Butyl Ester

100mg

>92.0%(HPLC) $C_{35}H_{38}N_4O_9 = 658.71$ [878483-02-4]

NMR P.226

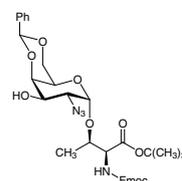


A1832 O-(2-Azido-4,6-O-benzylidene-2-deoxy- α -D-galactopyranosyl)-N-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-threonine tert-Butyl Ester

100mg

>97.0%(HPLC) $C_{36}H_{40}N_4O_9 = 672.74$ [195976-07-9]

NMR P.227



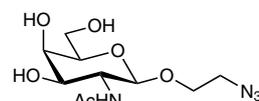
New

A2627 2-Azidoethyl 2-Acetamido-2-deoxy- β -D-galactopyranoside

Price on request

$C_{10}H_{18}N_4O_6 = 290.28$ [142072-15-9] MFCD19981043

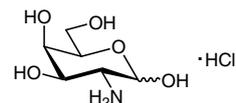
NMR P.228



G0007 D-(+)-Galactosamine Hydrochloride

1g 5g

>98.0%(HPLC)(N) $C_6H_{13}NO_5 \cdot HCl = 215.63$ [1772-03-8] MFCD00135830
MI14-4334 RTECS LW5500000

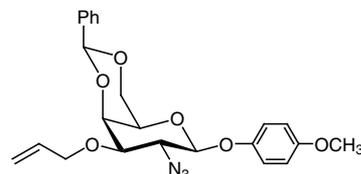


M1643 4-Methoxyphenyl 3-O-Allyl-2-azido-4,6-O-benzylidene-2-deoxy- β -D-galactopyranoside

1g

>95.0%(HPLC) $C_{23}H_{25}N_3O_6 = 439.47$ [889453-83-2]

NMR P.229



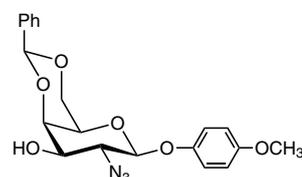
New

M2737 4-Methoxyphenyl 2-Azido-4,6-O-benzylidene-2-deoxy- β -D-galactopyranoside

Price on request

$C_{20}H_{21}N_3O_6 = 399.40$ [1340541-47-0]

NMR P.230

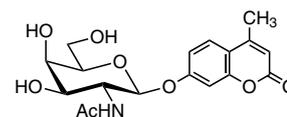


試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

New

M3029 4-Methylumbelliferyl 2-Acetamido-2-deoxy- β -D-galactopyranoside

250mg 1g

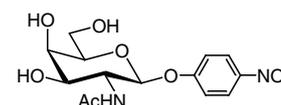
>98.0%(HPLC) $C_{18}H_{21}NO_8 = 379.37$ [36476-29-6]**N0865 4-Nitrophenyl 2-Acetamido-2-deoxy- β -D-galactopyranoside**

Price on request

 $C_{14}H_{18}N_2O_8 = 342.30$ [14948-96-0] MFCD00067360

mp 207°C

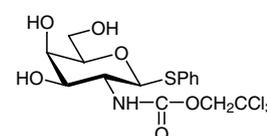
Beil. 18(5)11,102

**P1643 Phenyl 2-Deoxy-1-thio-2-(2,2,2-trichloroethoxyformamido)- β -D-galactopyranoside**

Price on request

 $C_{15}H_{18}Cl_3NO_6S = 446.72$ [868230-98-2]

NMR P.231

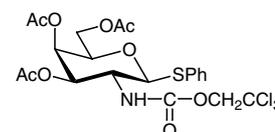
**P1642 Phenyl 3,4,6-Tri-O-acetyl-2-deoxy-1-thio-2-(2,2,2-trichloroethoxyformamido)- β -D-galactopyranoside**

1g 5g

>98.0%(HPLC)(N) $C_{21}H_{24}Cl_3NO_9S = 572.83$ [278784-83-1]

mp 117°C

NMR P.232

**T1731 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α -D-galactopyranose**

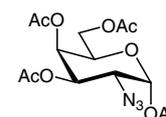
100mg

 $C_{14}H_{19}N_3O_9 = 373.32$ [67817-30-5] MFCD01076182

mp 121°C

Beil. 17(5)6,400

NMR P.233



A2253 2-Acetyl-5-methoxyphenyl β-D-Glucopyranoside

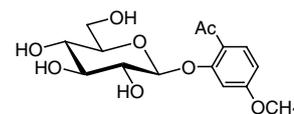
$C_{15}H_{20}O_8 = 328.32$ [20309-70-0]

mp 83°C

Beil. 17(4)3020

NMR P.234

Price on request

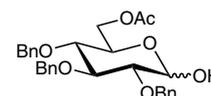


A2636 6-O-Acetyl-2,3,4-tri-O-benzyl- D-glucopyranose

$C_{29}H_{32}O_7 = 492.57$ [85011-34-3]

mp 100°C

Price on request

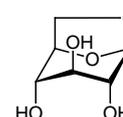


A1074 1,6-Anhydro-β-D-glucose

>99.0%(GC) $C_6H_{10}O_5 = 162.14$ [498-07-7] MFCD00063248

mp 183°C

1g 5g

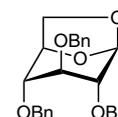


A2637 1,6-Anhydro-2,3,4-tri-O-benzyl- β-D-glucopyranose

$C_{27}H_{28}O_5 = 432.52$ [10548-46-6] MFCD02683260

mp 90°C

Price on request



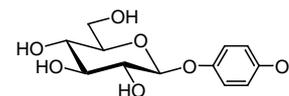
A0522 Arbutin

>95.0%(HPLC) $C_{12}H_{16}O_7 = 272.25$ [497-76-7] MFCD00016915

mp 198°C

Beil. 31,210 MI14-773 RTECS CE8863000

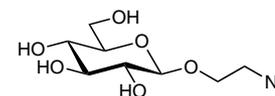
5g 25g



A2267 2-Azidoethyl β-D-Glucopyranoside

>98.0%(HPLC) $C_8H_{15}N_3O_6 = 249.22$ [165331-08-8]

1g



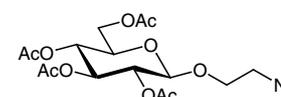
A2377 2-Azidoethyl 2,3,4,6-Tetra-O-acetyl- β-D-glucopyranoside

>92.0%(HPLC) $C_{16}H_{23}N_3O_{10} = 417.37$ [140428-81-5]

mp 115°C

NMR P.235

1g 5g



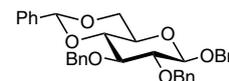
B4170 Benzyl 2,3-Di-O-benzyl-4,6-O-benzylidene-β-D-glucopyranoside

Price on request

 $C_{34}H_{34}O_6 = 538.64$ [183953-29-9]

mp 136°C

NMR P.236

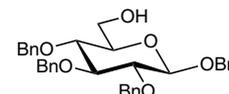
**B4171 Benzyl 2,3,4-Tri-O-benzyl-β-D-glucopyranoside**

Price on request

 $C_{34}H_{36}O_6 = 540.66$ [27851-29-2] MFCD03701135

mp 103°C

NMR P.237



New

B0397 Betanin (Red Beet extract diluted with Dextrin)

25g 100g

[7659-95-2] MFCD00060076

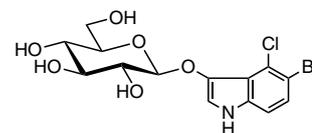
RTECS US7968100

B5393 5-Bromo-4-chloro-3-indolyl β-D-Glucopyranoside
[for Biochemical Research]

200mg 1g

>98.0%(HPLC) $C_{14}H_{13}BrClNO_6 = 408.63$ [15548-60-4] MFCD00063690

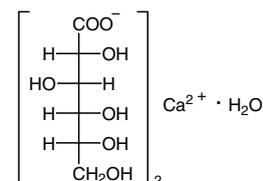
mp 243°C

**G0037 Calcium Gluconate** Monohydrate

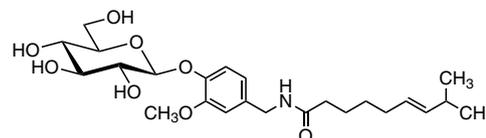
25g 500g

>98.0%(T) $C_{12}H_{22}CaO_{14} \cdot H_2O = 430.37$ (Anh) [299-28-5] MFCD00064209

Beil. 3,544 MI14-1669 RTECS EW2100000

**C2548 Capsaicin β-D-Glucopyranoside**

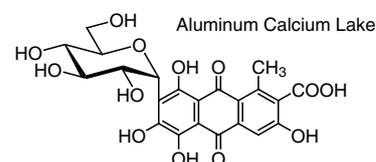
200mg

>90.0%(HPLC) $C_{24}H_{37}NO_8 = 467.56$ [153409-16-6]**C0543 Carmine**

5g 25g

>40.0%(HPLC) [1390-65-4] MFCD00167028

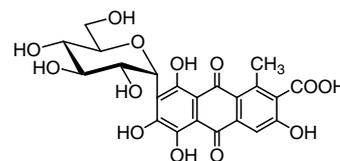
MI14-1843 RTECS FH8891000



C0782 Carminic Acid (Natural dye)

5g 25g

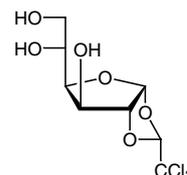
$C_{22}H_{20}O_{13} = 492.39$ [1260-17-9] MFCD00167028
Beil. 10(2)776 MI14-1843



C0074 α -Chloralose (contains β -isomer)

25g

>85.0%(GC) $C_8H_{11}Cl_3O_6 = 309.52$ [15879-93-3] MFCD00005542
mp 181°C
MI14-2072 RTECS FM9450000

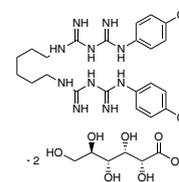


New

C3105 Chlorhexidine Digluconate (20% in Water)

25mL

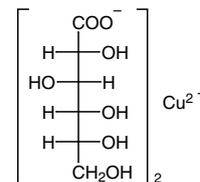
$C_{22}H_{30}Cl_2N_{10} \cdot 2C_6H_{12}O_7 = 897.76$ [18472-51-0] MFCD00083599
d 1.07
MI14-2091 RTECS DU1950000



G0275 Copper(II) Gluconate

25g

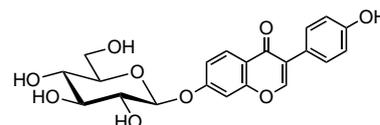
>97.0%(T) $C_{12}H_{22}CuO_{14} = 453.84$ [527-09-3] MFCD00075297
Beil. 3(4)1256 MI14-2640 RTECS LZ5058000



D3920 Daidzin

25mg

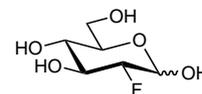
>98.0%(HPLC) $C_{21}H_{20}O_9 = 416.38$ [552-66-9] MFCD00017466
Beil. 18(4)1808 RTECS DJ3094000



D3023 2-Deoxy-2-fluoro-D-glucopyranose

100mg

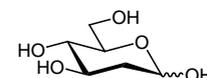
>98.0%(GC) $C_6H_{11}FO_5 = 182.15$ [29702-43-0] MFCD00077527



D0051 2-Deoxy-D-glucose

1g 5g 25g

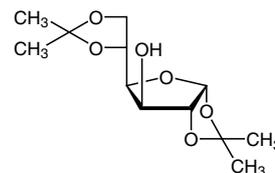
>97.0%(GC) $C_6H_{12}O_5 = 164.16$ [154-17-6] MFCD00151328
mp 150°C
MI14-2904 RTECS MQ3325000



D1949 1,2:5,6-Di-O-isopropylidene- α -D-glucofuranose

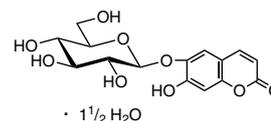
>97.0%(GC) $C_{12}H_{20}O_6 = 260.29$ [582-52-5] MFCD00005544
 mp 110°C
 Beil. 19(5)12,318 MI14-2965 RTECS LZ4958000

10g 25g

**E0024 Esculin Sesquihydrate**

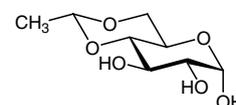
>98.0%(HPLC)(T) $C_{15}H_{16}O_9 \cdot 11/2H_2O = 340.28(Anh)$ [66778-17-4] MFCD00006879
 Beil. 18(3/4)1326 MI14-3698 RTECS DJ3085000

5g 25g

**E0402 4,6-O-Ethylidene- α -D-glucopyranose**

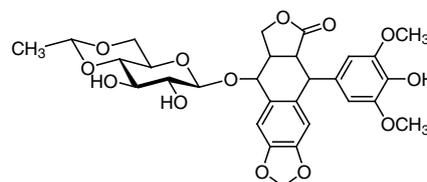
>96.0%(GC) $C_8H_{14}O_6 = 206.19$ [13224-99-2] MFCD00006820
 mp 173°C

1g 5g

**E0675 Etoposide**

>98.0%(HPLC) $C_{29}H_{32}O_{13} = 588.56$ [33419-42-0]
 mp 251°C
 MI14-3886 RTECS KC0190000

100mg 1g

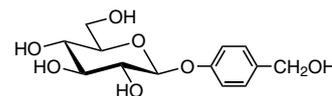


New

G0468 Gastrodin

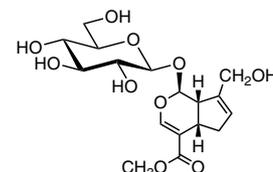
>98.0%(HPLC) $C_{13}H_{18}O_7 = 286.28$ [62499-27-8] MFCD00272169
 mp 155°C
 MI14-4375 RTECS LZ5776885

200mg 1g

**G0385 Geniposide**

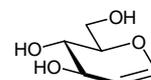
>95.0%(HPLC) $C_{17}H_{24}O_{10} = 388.37$ [24512-63-8] MFCD00016659
 mp 162°C

100mg 1g

**G0274 D-Glucal**

>97.0%(GC) $C_6H_{10}O_4 = 146.14$ [13265-84-4] MFCD00067186
 mp 62°C
 Beil. 17(5)5,697

1g 5g

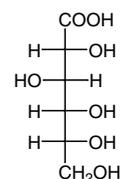


Glucose-⑤

G0036 Gluconic Acid (contains Gluconolactone) (45-50% in Water)

$C_6H_{12}O_7 = 196.16$ [526-95-4] MFCD00004240
Beil. 3,542 MI14-4456 RTECS LZ5057100

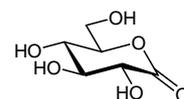
25g 500g



G0039 D-(+)-Glucono-1,5-lactone

>98.0%(T) $C_6H_{10}O_6 = 178.14$ [90-80-2] MFCD00006647
mp 153°C
Beil. 3(4)1255 MI14-4457 RTECS LZ5184000

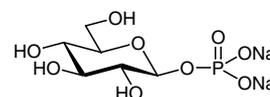
25g 500g



G0339 β-D-Glucopyranose 1-Phosphate Disodium Salt

>98.0%(HPLC) $C_6H_{11}Na_2O_9P = 304.10$ [83833-15-2]
NMR P.238

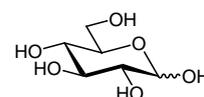
20mg 100mg



G0048 D-(+)-Glucose

>98.0%(GC) $C_6H_{12}O_6 = 180.16$ [50-99-7] MFCD00148912
Beil. 31,83 MI14-4459 RTECS LZ6600000

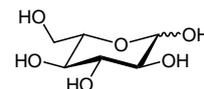
25g 500g



G0226 L-(-)-Glucose

>98.0%(GC) $C_6H_{12}O_6 = 180.16$ [921-60-8] MFCD00148913
MI14-4459 RTECS LZ6610000

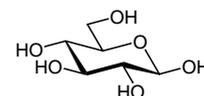
1g 5g



G0047 β-D-Glucose (contains α-D-Glucose)

>85.0%(GC) $C_6H_{12}O_6 = 180.16$ [492-61-5] MFCD00063989
mp 155°C
Beil. 1(4)4306 MI14-4459

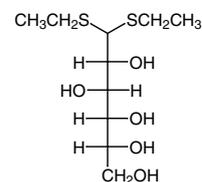
25g 500g



G0259 D-Glucose Diethyl Mercaptal

$C_{10}H_{22}O_5S_2 = 286.40$ [1941-52-2] MFCD00004706
mp 128°C
Beil. 31,475

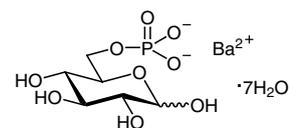
1g



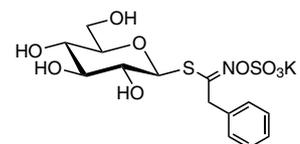
多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用は避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

G0052 D-Glucose 6-Phosphate Barium Salt
Heptahydrate>98.0%(W) $C_6H_{11}BaO_9P \cdot 7H_2O = 395.45(\text{Anh})$ [58823-95-3] MFCD00221521

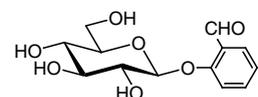
100mg 1g

**G0397 Glucotropaeolin Potassium Salt**>95.0%(HPLC) $C_{14}H_{18}KNO_9S_2 = 447.51$ [5115-71-9] MFCD00153006

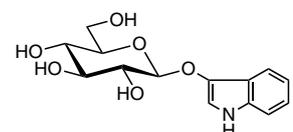
10mg

**H0908 Helicin**>98.0%(HPLC) $C_{13}H_{16}O_7 = 284.26$ [618-65-5] MFCD00006589
Beil. 31,223 MI14-4628

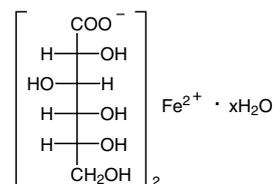
1g 5g

**New I1012 Indican (Plant Indican)**>98.0%(HPLC) $C_{14}H_{17}NO_6 = 295.29$ [487-60-5] MFCD00047169
mp 183°C
MI14-4942

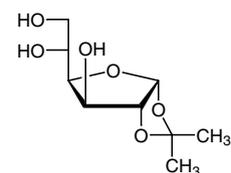
200mg 1g

**G0038 Iron(II) Gluconate Hydrate**>95.0%(T) $C_{12}H_{22}FeO_{14} \cdot xH_2O = 446.14(\text{Anh})$ [22830-45-1] MFCD00150872
Beil. 3(4)1256 MI14-4047 RTECS LZ5180000

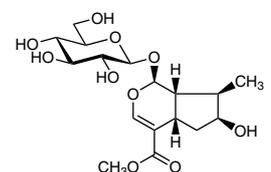
25g 500g

**I0400 1,2-O-Isopropylidene-α-D-glucopyranose**>97.0%(GC) $C_9H_{16}O_6 = 220.22$ [18549-40-1] MFCD00063244
mp 156°C
Beil. 19(3/4)4919

25g

**New L0268 Loganin**>98.0%(HPLC) $C_{17}H_{26}O_{10} = 390.39$ [18524-94-2] MFCD00075645
mp 225°C
MI14-5560

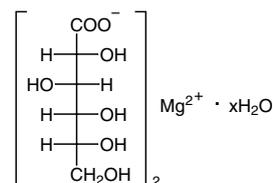
10mg 50mg



G0276 Magnesium(II) Gluconate Hydrate

25g 500g

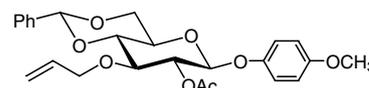
>98.0%(T) $C_{12}H_{22}MgO_{14} \cdot xH_2O = 414.60(\text{Anh})$ [3632-91-5] MFCD00150971
Beil. 3(2)350 RTECS OM3480000



M2065 4-Methoxyphenyl 2-O-Acetyl-3-O-allyl-4,6-O-benzylidene-β-D-glucopyranoside

1g 5g

>98.0%(HPLC) $C_{25}H_{28}O_8 = 456.49$ [1477956-18-5]

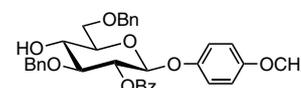


M2434 4-Methoxyphenyl 2-O-Benzoyl-3,6-di-O-benzyl-β-D-glucopyranoside

Price on request

$C_{34}H_{34}O_8 = 570.64$ [1393898-89-9]

NMR P.239



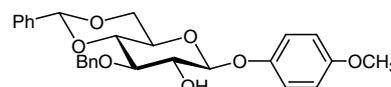
M1640 4-Methoxyphenyl 3-O-Benzyl-4,6-O-benzylidene-β-D-glucopyranoside

1g 5g

>98.0%(HPLC) $C_{27}H_{28}O_7 = 464.51$ [303127-81-3]

mp 207°C

NMR P.240

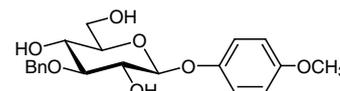


M1641 4-Methoxyphenyl 3-O-Benzyl-β-D-glucopyranoside

1g

>98.0%(HPLC) $C_{20}H_{24}O_7 = 376.41$ [303127-80-2]

NMR P.241



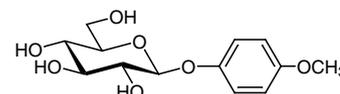
M1631 4-Methoxyphenyl β-D-Glucopyranoside

5g 25g

>97.0%(HPLC) $C_{13}H_{18}O_7 = 286.28$ [6032-32-2] MFCD06797143

mp 176°C

NMR P.242

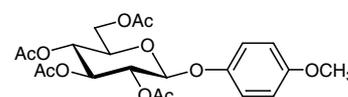


M1630 4-Methoxyphenyl 2,3,4,6-Tetra-O-acetyl-β-D-glucopyranoside

5g

>98.0%(HPLC) $C_{21}H_{26}O_{11} = 454.43$ [14581-81-8] MFCD06797142

NMR P.243



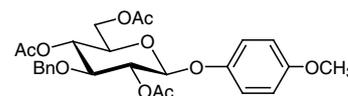
M1642 4-Methoxyphenyl 2,4,6-Tri-O-acetyl-3-O-benzyl-β-D-glucopyranoside

1g 5g

>96.0%(HPLC) C₂₆H₃₀O₁₀ = 502.52 [303127-79-9]

mp 160°C

NMR P.244

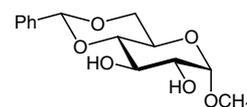
**M1125 Methyl 4,6-O-Benzylidene-α-D-glucopyranoside**

5g 25g

>98.0%(GC) C₁₄H₁₈O₆ = 282.29 [3162-96-7] MFCD00006819

mp 164°C

Beil. 19(3/4)4956

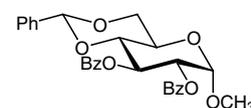
**M2013 Methyl 2,3-Di-O-benzoyl-4,6-O-benzylidene-α-D-glucopyranoside**

1g

>98.0%(HPLC) C₂₈H₂₆O₈ = 490.51 [6748-91-0] MFCD02167693

mp 154°C

Beil. 19(4)4974



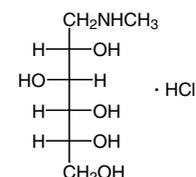
New

M0713 N-Methyl-D-glucamine Hydrochloride
[for Buffer]

5g 25g

>98.0%(HPLC)(T) C₇H₁₇NO₅ · HCl = 231.67 [35564-86-4] MFCD00060164

mp 150°C

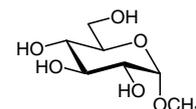
**M0228 Methyl α-D-Glucopyranoside**

25g 100g 500g

>98.0%(GC) C₇H₁₄O₆ = 194.18 [97-30-3] MFCD00064086

mp 170°C

Beil. 31,179 MI14-6080

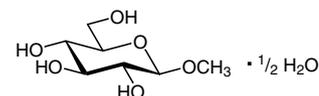
**M0709 Methyl β-D-Glucopyranoside**
Hemihydrate

5g 25g

>98.0%(GC) C₇H₁₄O₆ · 1/2H₂O = 194.18(Anh) [709-50-2] MFCD00006602

mp 111°C

Beil. 17(3/4)2911

**M1682 Methyl 2,3,4,6-Tetra-O-acetyl-1-thio-β-D-glucopyranoside**

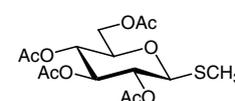
1g 5g

>98.0%(GC) C₁₅H₂₂O₉S = 378.39 [13350-45-3]

mp 91°C

Beil. 17(3/4)3729

NMR P.245



M1487 Methyl 2,3,4-Tri-O-benzoyl- α -D-glucopyranoside

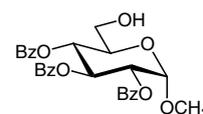
1g 5g

>98.0%(HPLC) $C_{28}H_{26}O_9$ = 506.51 [34234-44-1] MFCD06797128

mp 146°C

Beil. 17(3/4)3309

NMR P.246



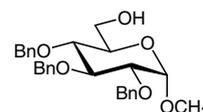
M1488 Methyl 2,3,4-Tri-O-benzyl- α -D-glucopyranoside

1g

>98.0%(HPLC) $C_{28}H_{32}O_6$ = 464.56 [53008-65-4] MFCD06798958

mp 67°C

NMR P.247

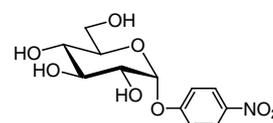


N0493 4-Nitrophenyl α -D-Glucopyranoside [Substrate for α -D-Glucosidase]

1g 5g

>98.0%(HPLC) $C_{12}H_{15}NO_8$ = 301.25 [3767-28-0] MFCD00064088

mp 212°C

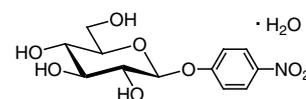


N0235 4-Nitrophenyl β -D-Glucopyranoside Monohydrate [Substrate for β -D-Glucosidase]

1g 5g

>98.0%(HPLC) $C_{12}H_{15}NO_8 \cdot H_2O$ = 301.25(Anh) [2492-87-7] MFCD00006593

mp 167°C

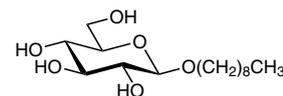


N0909 Nonyl β -D-Glucopyranoside

1g

>98.0%(GC) $C_{15}H_{30}O_6$ = 306.40 [69984-73-2] MFCD00063300

mp 70°C

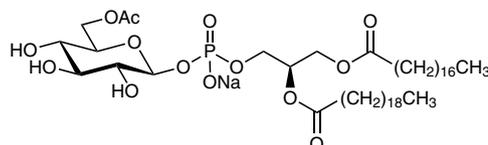


A2638 6-OAc PtdGlc(di-acyl Chain)

Price on request

$C_{49}H_{92}NaO_{14}P$ = 959.22 [1065483-61-5]

NMR P.248

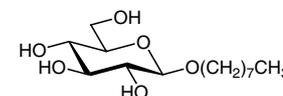


O0355 n-Octyl β -D-Glucopyranoside [for Biochemical Research]

1g

>96.0%(GC) $C_{14}H_{28}O_6$ = 292.37 [29836-26-8] MFCD00063288

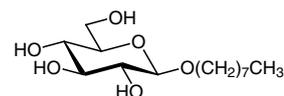
Beil. 17(5)7,38 MI14-6767



00232 n-Octyl β-D-Glucopyranoside

1g 5g

>96.0%(GC) C₁₄H₂₈O₆ = 292.37 [29836-26-8] MFCD00063288
Beil. 17(5)7,38 MI14-6767

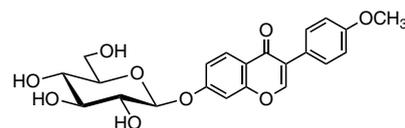


New

00405 Ononin

10mg

>97.0%(HPLC) C₂₂H₂₂O₉ = 430.41 [486-62-4] MFCD00017464

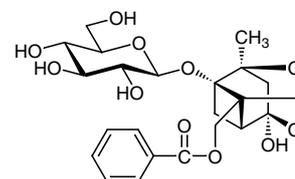


New

P1876 Paeoniflorin

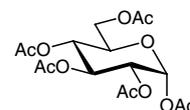
100mg

>97.0%(HPLC) C₂₃H₂₈O₁₁ = 480.47 [23180-57-6] MFCD00869331
RTECS RT1200000

**G0225 Penta-O-acetyl-α-D-glucopyranose**

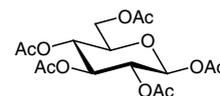
10g 25g 250g

>97.0%(GC) C₁₆H₂₂O₁₁ = 390.34 [604-68-2] MFCD00064071
mp 113°C
Beil. 31,119

**P0028 Penta-O-acetyl-β-D-glucopyranose**

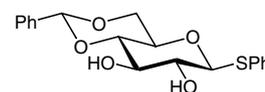
100g 500g

>99.0%(GC) C₁₆H₂₂O₁₁ = 390.34 [604-69-3] MFCD00006597
mp 132°C
Beil. 17(3/4)3278

**P1475 Phenyl 4,6-O-Benzylidene-1-thio-β-D-glucopyranoside**

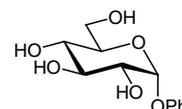
5g

>98.0%(HPLC) C₁₉H₂₀O₅S = 360.42 [87508-17-6] MFCD06797160
mp 185°C
NMR P.249

**P1346 Phenyl α-D-Glucopyranoside**

1g

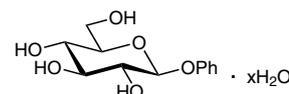
>97.0%(GC) C₁₂H₁₆O₆ = 256.25 [4630-62-0] MFCD00006594
mp 172°C
Beil. 17(5)7,45 RTECS LZ5985500



P0178 Phenyl β-D-Glucopyranoside Hydrate

1g 10g

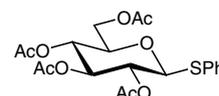
>99.0%(GC) C₁₂H₁₆O₆ · xH₂O = 256.25(Anh) [1464-44-4] MFCD03410292
mp 173°C
RTECS LZ5985510



P1476 Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio-β-D-glucopyranoside

5g 25g

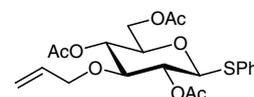
>98.0%(HPLC) C₂₀H₂₄O₉S = 440.46 [23661-28-1] MFCD00135159
mp 118°C
NMR P.250



P1736 Phenyl 2,4,6-Tri-O-acetyl-3-O-allyl-1-thio-β-D-glucopyranoside

1g

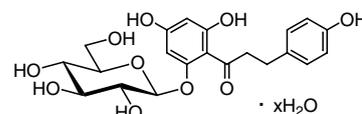
>98.0%(HPLC) C₂₁H₂₆O₈S = 438.49 [197005-22-4]
mp 115°C
NMR P.251



P0248 Phlorizin Hydrate

1g 5g

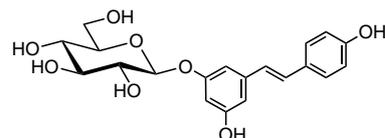
>97.0%(T) C₂₁H₂₄O₁₀ · xH₂O = 436.41(Anh) [60-81-1] MFCD00006591
Beil. 17(3/4)3042 MI14-7327 RTECS UC2080000



New P1878 Piceid

1g 5g

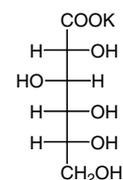
>95.0%(HPLC) C₂₀H₂₂O₈ = 390.39 [27208-80-6] MFCD00210592
mp 226°C
Beil. 17(4)3001



G0040 Potassium Gluconate

25g 500g

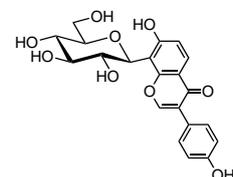
>99.0%(T) C₆H₁₁KO₇ = 234.25 [299-27-4] MFCD00064211
MI14-4456 RTECS LZ5230000



P1886 Puerarin

200mg 1g

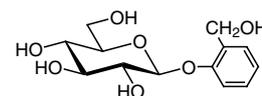
>98.0%(HPLC)(T) C₂₁H₂₀O₉ = 416.38 [3681-99-0] MFCD00076007
Beil. 19(4)3200 RTECS UO5216000



S0003 Salicin

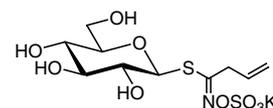
5g 25g

>98.0%(HPLC) $C_{13}H_{18}O_7 = 286.28$ [138-52-3] MFCD00006590
 mp 200°C
 Beil. 31,214 MI14-8324 RTECS LZ5901700

**S0156 Sinigrin Hydrate**

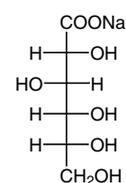
100mg

>98.0%(HPLC) $C_{10}H_{16}KNO_9S_2 \cdot xH_2O = 397.45(\text{Anh})$ [3952-98-5] MFCD00006616
 mp 127°C
 MI14-8545 RTECS LZ5778000

· xH₂O**G0041 Sodium Gluconate**

25g 500g

>99.0%(T) $C_6H_{11}NaO_7 = 218.14$ [527-07-1] MFCD00064210
 Beil. 3(1)188 MI14-4456 RTECS LZ5235000

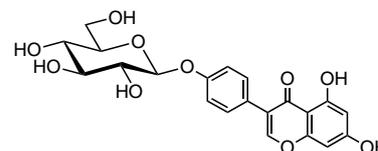


New

S0835 Sophoricoside

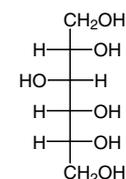
100mg

>98.0%(HPLC) $C_{21}H_{20}O_{10} = 432.38$ [152-95-4] MFCD01075138
 mp 297°C
 Beil. 18(5)4,597

**S0065 D-Sorbitol**

25g 500g

>97.0%(GC) $C_6H_{14}O_6 = 182.17$ [50-70-4] MFCD00004708
 Beil. 1(4)2839 MI14-8725 RTECS LZ4290000

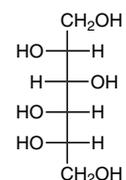


New

S0388 L-Sorbitol

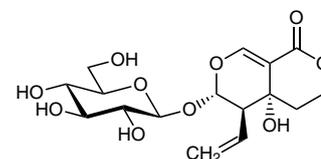
100mg 1g

>97.0%(GC) $C_6H_{14}O_6 = 182.17$ [6706-59-8] MFCD00191490
 mp 91°C

**S0897 Swertiamarin**

25mg

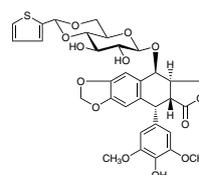
>98.0%(HPLC) $C_{16}H_{22}O_{10} = 374.34$ [17388-39-5] MFCD07783984
 mp 114°C
 MI14-9010 RTECS UQ1366700



New **T3109 Teniposide**

20mg 100mg

>98.0%(HPLC) $C_{32}H_{32}O_{13}S = 656.66$ [29767-20-2] MFCD00866516
MI14-9145 RTECS KC0180000

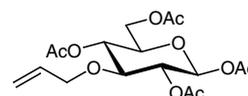


T2449 1,2,4,6-Tetra-O-acetyl-3-O-allyl-β-D-glucopyranose

1g

>98.0%(HPLC) $C_{17}H_{24}O_{10} = 388.37$ [39698-00-5]
mp 119°C

NMR P.252



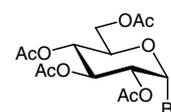
T1961 2,3,4,6-Tetra-O-acetyl-α-D-glucopyranosyl Bromide
(stabilized with $CaCO_3$)

5g

>98.0%(T) $C_{14}H_{19}BrO_9 = 411.20$ [572-09-8] MFCD00063254

mp 89°C

Beil. 17(5)6,368 MI14-60



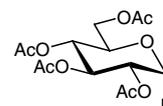
T1995 2,3,4,6-Tetra-O-acetyl-α-D-glucopyranosyl Fluoride

1g

>98.0%(GC) $C_{14}H_{19}FO_9 = 350.30$ [3934-29-0] MFCD00792705

Beil. 17(5)6,357

NMR P.253



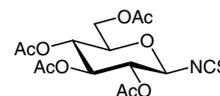
A5514 2,3,4,6-Tetra-O-acetyl-β-D-glucopyranosyl Isothiocyanate
[for HPLC Labeling]

100mg 1g

>98.0%(HPLC)(N) $C_{15}H_{19}NO_9S = 389.38$ [14152-97-7] MFCD00043085

mp 116°C

Beil. 31,161



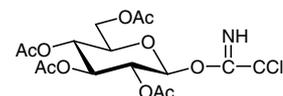
T2491 2,3,4,6-Tetra-O-acetyl-β-D-glucopyranosyl 2,2,2-Trichloroacetimidate

1g 5g

>98.0%(N) $C_{16}H_{20}Cl_3NO_{10} = 492.68$ [92052-29-4]

mp 158°C

NMR P.254

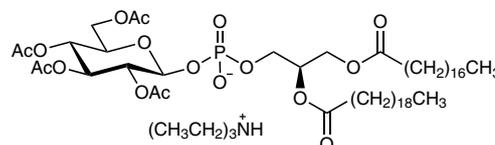


P2079 2,3,4,6-Tetra-O-acetyl-PtdGlc (di-acyl Chain)

Price on request

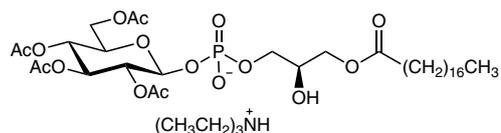
$C_{61}H_{114}NO_{17}P = 1164.55$ [1037195-49-5]

NMR P.255



**P2080 2,3,4,6-Tetra-O-acetyl-PtdGlc
(mono-acyl Chain)**C₄₁H₇₆NO₁₆P = 870.02

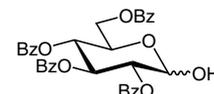
NMR P.256



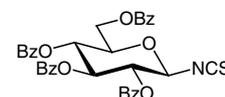
Price on request

T2020 2,3,4,6-Tetra-O-benzoyl-D-glucopyranose

250mg 1g

>90.0%(HPLC) C₃₄H₂₈O₁₀ = 596.59 [64768-20-3] MFCD00066004
mp 122°C**A5515 2,3,4,6-Tetra-O-benzoyl-
β-D-glucopyranosyl Isothiocyanate
[for HPLC Labeling]**

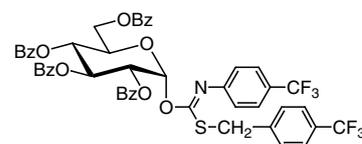
100mg 1g

>98.0%(HPLC) C₃₅H₂₇NO₉S = 637.66 [132413-50-4] MFCD00075064**T1991 2,3,4,6-Tetra-O-benzoyl-α-D-glucopyranosyl
p-Trifluoromethylbenzylthio-
N-(p-trifluoromethylphenyl)formimidate**

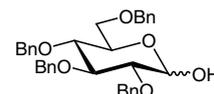
200mg 1g

>96.0%(HPLC) C₅₀H₃₇F₆NO₁₀S = 957.89 [428816-48-2] MFCD06797174

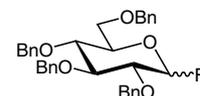
NMR P.257

**T1914 2,3,4,6-Tetra-O-benzyl-D-glucopyranose**

1g 5g

>97.0%(HPLC) C₃₄H₃₆O₆ = 540.66 [4132-28-9] MFCD00066004
mp 150°C**T1971 2,3,4,6-Tetra-O-benzyl-
D-glucopyranosyl Fluoride**

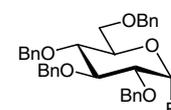
500mg

>96.0%(HPLC) C₃₄H₃₅FO₅ = 542.65 [122741-44-0] MFCD01862264
mp 45°C**T1922 2,3,4,6-Tetra-O-benzyl-
α-D-glucopyranosyl Fluoride**

500mg

>95.0%(GC) C₃₄H₃₅FO₅ = 542.65 [89025-46-7] MFCD03701104
mp 69°C

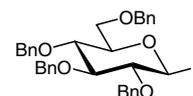
NMR P.258



T1923 2,3,4,6-Tetra-O-benzyl-β-D-glucopyranosyl Fluoride

500mg

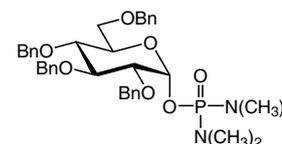
>96.0%(HPLC) C₃₄H₃₅FO₅ = 542.65 [78153-79-4] MFCD01862264
mp 47°C
NMR P.259



T2197 2,3,4,6-Tetra-O-benzyl-α-D-glucopyranosyl N,N,N',N'-Tetramethylphosphorodiamidate (ca. 20% in Benzene)

5g

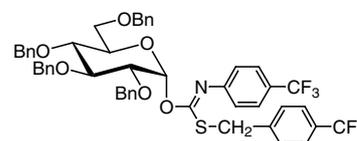
C₃₈H₄₇N₂O₇P = 674.77 [143520-19-8] MFCD06797176
NMR P.260



T1999 2,3,4,6-Tetra-O-benzyl-α-D-glucopyranosyl p-Trifluoromethylbenzylthio-N-(p-trifluoromethylphenyl)formimidate

200mg 1g

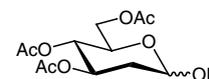
C₅₀H₄₅F₆NO₆S = 901.96 [468095-63-8] MFCD06797177
mp 123°C
NMR P.261



T1931 3,4,6-Tri-O-acetyl-2-deoxy-D-glucopyranose

100mg

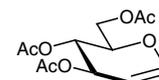
>98.0%(GC) C₁₂H₁₈O₈ = 290.27 [69503-94-2] MFCD06797168
mp 106°C



T1596 Tri-O-acetyl-D-glucal

5g 25g

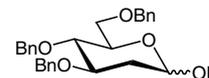
>96.0%(GC) C₁₂H₁₆O₇ = 272.25 [2873-29-2] MFCD00063253
mp 55°C
Beil. 17(5)5,699



T1933 3,4,6-Tri-O-benzyl-2-deoxy-D-glucopyranose

100mg

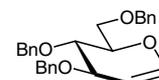
>98.0%(HPLC) C₂₇H₃₀O₅ = 434.53 [132732-60-6] MFCD06797170



T1859 Tri-O-benzyl-D-glucal

1g 5g

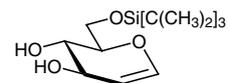
>95.0%(HPLC) C₂₇H₂₈O₄ = 416.52 [55628-54-1] MFCD00061640
mp 57°C
Beil. 17(5)5,698



New **T1936 6-O-(Triisopropylsilyl)-D-glucal**

>95.0%(GC) $C_{15}H_{30}O_4Si = 302.49$ [137915-37-8]

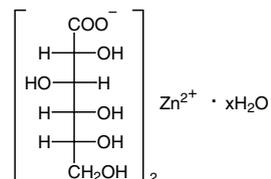
100mg



G0277 Zinc(II) Gluconate Hydrate

>98.0%(T) $C_{12}H_{22}O_{14}Zn \cdot xH_2O = 455.67(\text{Anh})$ [4468-02-4] MFCD04037230
Beil. 3(3)1059 RTECS ZH3750000

25g 500g

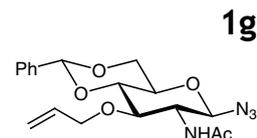


Glucosamine-①

A1812 2-Acetamido-3-O-allyl-4,6-O-benzylidene-2-deoxy-β-D-glucopyranosyl Azide

>98.0%(HPLC) C₁₈H₂₂N₄O₅ = 374.40 MFCD06797051

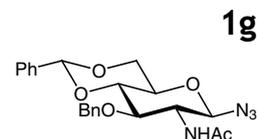
NMR P.262



A1813 2-Acetamido-3-O-benzyl-4,6-O-benzylidene-2-deoxy-β-D-glucopyranosyl Azide

>98.0%(HPLC) C₂₂H₂₄N₄O₅ = 424.46 [80887-27-0] MFCD06797052

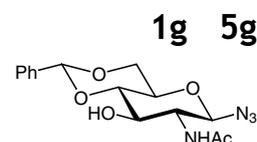
NMR P.263



A1811 2-Acetamido-4,6-O-benzylidene-2-deoxy-β-D-glucopyranosyl Azide

>98.0%(HPLC) C₁₅H₁₈N₄O₅ = 334.33 [168397-51-1]

NMR P.264

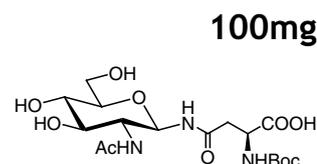


A1614 N^ω-(2-Acetamido-2-deoxy-β-D-glucopyranosyl)-N^α-(tert-butoxycarbonyl)-L-asparagine

>96.0%(HPLC) C₁₇H₂₉N₃O₁₀ = 435.43 [137255-40-4] MFCD06797037

mp 213°C

NMR P.265

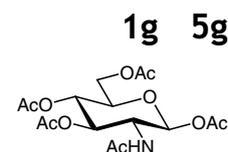


A1459 2-Acetamido-1,3,4,6-tetra-O-acetyl-2-deoxy-β-D-glucopyranose

>98.0%(HPLC) C₁₆H₂₃NO₁₀ = 389.36 [7772-79-4] MFCD00006595

mp 188°C

Beil. 18(5)11,132

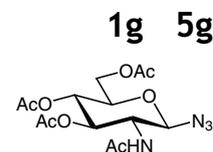


A1616 2-Acetamido-3,4,6-tri-O-acetyl-2-deoxy-β-D-glucopyranosyl Azide

>98.0%(HPLC) C₁₄H₂₀N₄O₈ = 372.33 [6205-69-2] MFCD00216968

Beil. 18(5)10,575

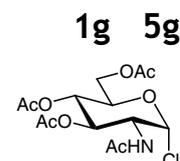
NMR P.266



A1416 2-Acetamido-3,4,6-tri-O-acetyl-2-deoxy-α-D-glucopyranosyl Chloride

>93.0%(T) C₁₄H₂₀ClNO₈ = 365.76 [3068-34-6] MFCD00069776

Beil. 18(5)10,570

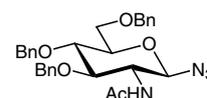


A1678 2-Acetamido-3,4,6-tri-O-benzyl-2-deoxy-β-D-glucopyranosyl Azide

1g 5g

>98.0%(HPLC) C₂₉H₃₂N₄O₅ = 516.60 [214467-60-4] MFCD06797049

NMR P.267

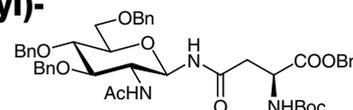


A1685 N^ω-(2-Acetamido-3,4,6-tri-O-benzyl-2-deoxy-β-D-glucopyranosyl)-N^α-(tert-butoxycarbonyl)-L-asparagine Benzyl Ester

100mg

>97.0%(HPLC) C₄₅H₅₃N₃O₁₀ = 795.93 [219968-28-2] MFCD06797050

NMR P.268

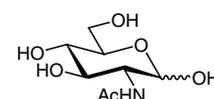


A0092 N-Acetyl-D-glucosamine

25g 100g 500g

>98.0%(HPLC)(N) C₈H₁₅NO₆ = 221.21 [7512-17-6] MFCD00136044

Beil. 31,170

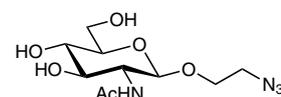


A2172 2-Azidoethyl 2-Acetamido-2-deoxy-β-D-glucopyranoside

500mg

>98.0%(HPLC) C₁₀H₁₈N₄O₆ = 290.28 [142072-12-6]

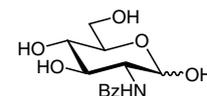
NMR P.269



B0200 N-Benzoyl-D-glucosamine

5g 25g

>98.0%(N) C₁₃H₁₇NO₆ = 283.28 [655-42-5] MFCD00070521

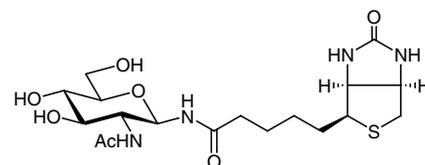


G0297 N-GlcNAc-Biotin

50mg

C₁₈H₃₀N₄O₇S = 446.52 [1272755-69-7]

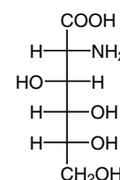
NMR P.270



G0042 D-Glucosamic Acid

1g 5g

>98.0%(T) C₆H₁₃NO₆ = 195.17 [3646-68-2] MFCD00037764

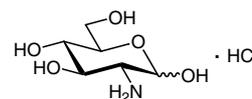


Glucosamine-③

G0044 D-(+)-Glucosamine Hydrochloride

>98.0%(T) $C_6H_{13}NO_5 \cdot HCl = 215.63$ [66-84-2] MFCD00135831
Beil. 1,902 RTECS LZ6665000

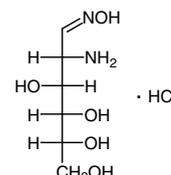
25g 500g



G0045 D-Glucosamine Oxime Hydrochloride

>98.0%(HPLC)(N) $C_6H_{14}N_2O_5 \cdot HCl = 230.65$ [54947-34-1] MFCD00060165

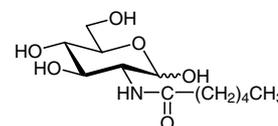
1g



H0118 N-Hexanoyl-D-glucosamine

>98.0%(N) $C_{12}H_{23}NO_6 = 277.32$ [19817-88-0] MFCD00059806

1g



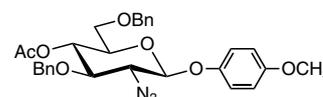
New

M2051 4-Methoxyphenyl 4-O-Acetyl-2-azido-3,6-di-O-benzyl-2-deoxy-β-D-glucopyranoside

$C_{29}H_{31}N_3O_7 = 533.58$

NMR P.271

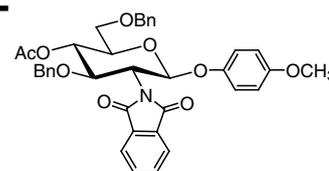
Price on request



M1834 4-Methoxyphenyl 4-O-Acetyl-3,6-di-O-benzyl-2-deoxy-2-phthalimido-β-D-glucopyranoside

>98.0%(HPLC) $C_{37}H_{35}NO_9 = 637.69$ [140615-77-6]

1g 5g



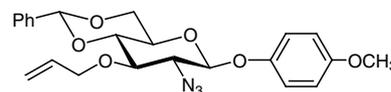
M1638 4-Methoxyphenyl 3-O-Allyl-2-azido-4,6-O-benzylidene-2-deoxy-β-D-glucopyranoside

>98.0%(HPLC) $C_{23}H_{25}N_3O_6 = 439.47$ [889453-78-5] MFCD06797147

mp 121°C

NMR P.272

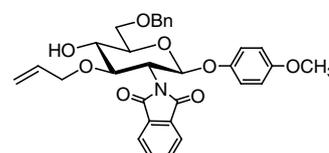
1g



M1604 4-Methoxyphenyl 3-O-Allyl-6-O-benzyl-2-deoxy-2-phthalimido-β-D-glucopyranoside

>98.0%(HPLC) $C_{31}H_{31}NO_8 = 545.59$

1g 5g



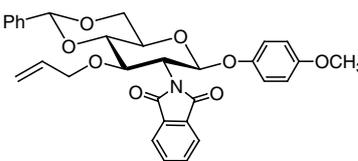
M1598 4-Methoxyphenyl 3-O-Allyl-4,6-O-benzylidene-2-deoxy-2-phthalimido-β-D-glucopyranoside

1g 5g

>97.0%(HPLC) C₃₁H₂₉NO₈ = 543.57 [889453-84-3]

mp 130°C

NMR P.273



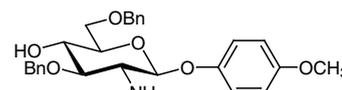
M1616 4-Methoxyphenyl 2-Amino-3,6-di-O-benzyl-2-deoxy-β-D-glucopyranoside

1g 5g

C₂₇H₃₁NO₆ = 465.55 [1272755-07-3]

mp 105°C

NMR P.274



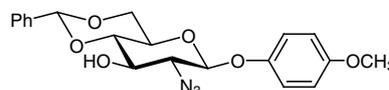
M1637 4-Methoxyphenyl 2-Azido-4,6-O-benzylidene-2-deoxy-β-D-glucopyranoside

1g 5g

>98.0%(HPLC) C₂₀H₂₁N₃O₆ = 399.40 [1430068-18-0] MFCD06797146

mp 165°C

NMR P.275

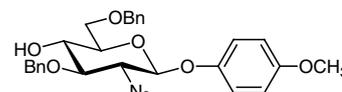


M1617 4-Methoxyphenyl 2-Azido-3,6-di-O-benzyl-2-deoxy-β-D-glucopyranoside

1g

C₂₇H₂₉N₃O₆ = 491.54 [1272755-25-5]

NMR P.276



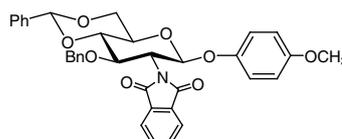
M1609 4-Methoxyphenyl 3-O-Benzyl-4,6-O-benzylidene-2-deoxy-2-phthalimido-β-D-glucopyranoside

1g

>98.0%(HPLC) C₃₅H₃₁NO₈ = 593.63 [129575-88-8] MFCD06797139

mp 133°C

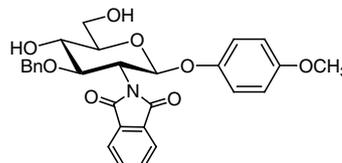
NMR P.277



M1610 4-Methoxyphenyl 3-O-Benzyl-2-deoxy-2-phthalimido-β-D-glucopyranoside

Price on request

C₂₈H₂₇NO₈ = 505.52 [138906-44-2]



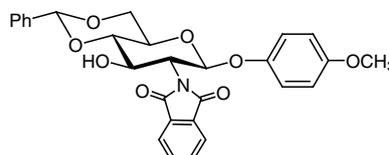
M1479 4-Methoxyphenyl 4,6-O-Benzylidene-2-deoxy-2-phthalimido-β-D-glucopyranoside

5g

>98.0%(HPLC) C₂₈H₂₅NO₈ = 503.51 [138906-43-1] MFCD06797124

mp 142°C

NMR P.278

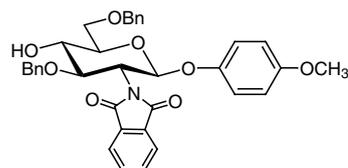


M1615 4-Methoxyphenyl 3,6-Di-O-benzyl-2-deoxy-2-phthalimido-β-D-glucopyranoside

1g

>95.0%(HPLC) C₃₅H₃₃NO₈ = 595.65 [129575-89-9]

NMR P.279



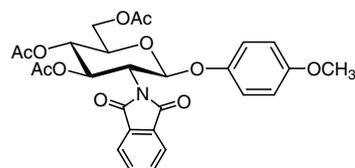
M1480 4-Methoxyphenyl 3,4,6-Tri-O-acetyl-2-deoxy-2-phthalimido-β-D-glucopyranoside

5g

>98.0%(HPLC) C₂₇H₂₇NO₁₁ = 541.51 [138906-41-9] MFCD06797125

mp 149°C

NMR P.280



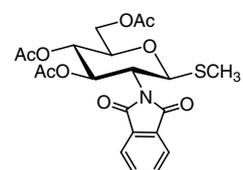
M1649 Methyl 3,4,6-Tri-O-acetyl-2-deoxy-2-phthalimido-1-thio-β-D-glucopyranoside

1g 5g

>98.0%(HPLC)(N) C₂₁H₂₃NO₉S = 465.47 [79528-48-6]

mp 150°C

NMR P.281



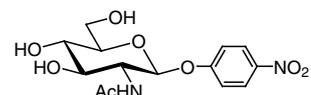
N0866 4-Nitrophenyl 2-Acetamido-2-deoxy-β-D-glucopyranoside

200mg 1g

>98.0%(HPLC)(N) C₁₄H₁₈N₂O₈ = 342.30 [3459-18-5] MFCD00063696

mp 205°C

Beil. 18(5)11,102

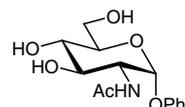


P0130 Phenyl N-Acetyl-α-D-glucosaminide

100mg

C₁₄H₁₉NO₆ = 297.31 [10139-04-5] MFCD00067651

mp 241°C

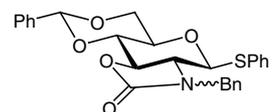


P1762 Phenyl N-Benzyl-2-amino-4,6-O-benzylidene-2-N,3-O-carbonyl-2-deoxy-1-thio-β-D-glucopyranoside

1g

>97.0%(HPLC) C₂₇H₂₅NO₅S = 475.56 [910805-49-1]

NMR P.282

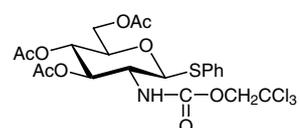


P1866 Phenyl 3,4,6-Tri-O-acetyl-2-deoxy-1-thio-2-(2,2,2-trichloroethoxyformamido)-β-D-glucopyranoside

5g

>98.0%(HPLC) C₂₁H₂₄Cl₃NO₉S = 572.83 [187022-49-7] MFCD11112181

mp 143°C



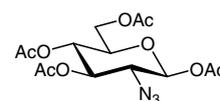
T2196 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-β-D-glucopyranose

200mg 1g

>97.0%(HPLC) $C_{14}H_{19}N_3O_9$ = 373.32 [80321-89-7]

mp 97°C

NMR P.283



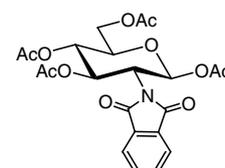
T2047 1,3,4,6-Tetra-O-acetyl-2-deoxy-2-phthalimido-β-D-glucopyranose

5g 25g

>97.0%(HPLC) $C_{22}H_{23}NO_{11}$ = 477.42 [10022-13-6]

mp 200°C

NMR P.284

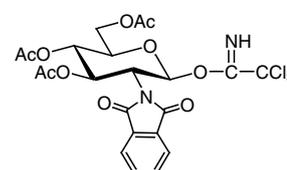


T2615 3,4,6-Tri-O-acetyl-2-deoxy-2-phthalimido-β-D-glucopyranosyl 2,2,2-Trichloroacetimidate

Price on request

$C_{22}H_{21}Cl_3N_2O_{10}$ = 579.76 [87190-67-8] MFCD09750821

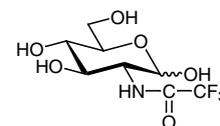
mp 146°C



T0973 N-Trifluoroacetyl-D-glucosamine

1g 5g

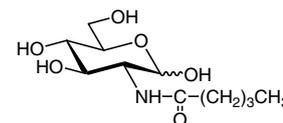
>96.0%(N) $C_8H_{12}F_3NO_6$ = 275.18 [36875-26-0] MFCD00059807



V0011 N-Valeryl-D-glucosamine

1g

>98.0%(N) $C_{11}H_{21}NO_6$ = 263.29 [63223-57-4] MFCD00059805

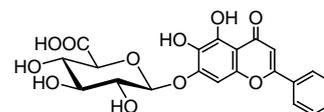


Glucuronic Acid-①

B2835 Baicalin

25g

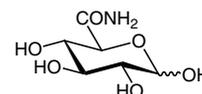
>90.0%(T) $C_{21}H_{18}O_{11}$ = 446.36 [21967-41-9] MFCD00134418
mp 196°C
Beil. 18(3/4)5154 RTECS LZ5776910



G0223 D-Glucuronamide

25g

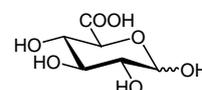
>98.0%(N) $C_6H_{11}NO_6$ = 193.16 [3789-97-7] MFCD00006619
mp 167°C
Beil. 3(4)2009 RTECS LZ8829200



G0302 D-Glucuronic Acid

5g 25g

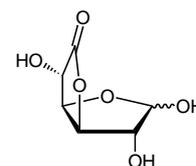
>96.0%(HPLC)(T) $C_6H_{10}O_7$ = 194.14 [6556-12-3] MFCD00077778
Beil. 3(4)1996 MI14-4465 RTECS LZ8836600



G0055 D-Glucurono-6,3-lactone

25g 100g 500g

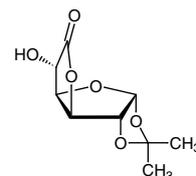
>99.0%(T) $C_6H_8O_6$ = 176.12 [32449-92-6] MFCD00135622
Beil. 18(3/4)3055 MI14-4467 RTECS LZ8930000



I0688 1,2-O-Isopropylidene- α-D-glucurono-6,3-lactone

1g

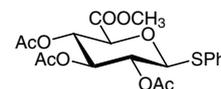
>98.0%(GC) $C_9H_{12}O_6$ = 216.19 [20513-98-8] MFCD00061641
mp 121°C
Beil. 19(3/4)5942



M1759 Methyl (Phenyl 2,3,4-Tri-O-acetyl-1-thio- β-D-glucopyranosid)uronate

1g

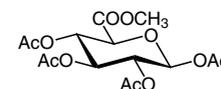
>98.0%(HPLC) $C_{19}H_{22}O_9S$ = 426.44 [62812-42-4]
mp 119°C
Beil. 18(3/4)5222
NMR P.285



M1868 Methyl 1,2,3,4-Tetra-O-acetyl- β-D-glucuronate

1g 5g

>96.0%(GC) $C_{15}H_{20}O_{11}$ = 376.31 [7355-18-2] MFCD00069834
mp 179°C
Beil. 18(3/4)5187
NMR P.286



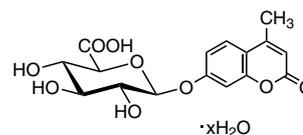
試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

New

M3026 4-Methylumbelliferyl β-D-Glucuronide Hydrate

100mg 1g

>98.0%(HPLC) $C_{16}H_{16}O_9 \cdot xH_2O = 352.30(\text{Anh})$ [881005-91-0] MFCD09039280

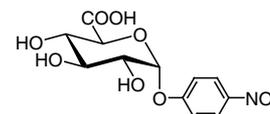


N0857 4-Nitrophenyl α-D-Glucuronide

25mg

>97.0%(HPLC) $C_{12}H_{13}NO_9 = 315.23$ [71484-85-0]

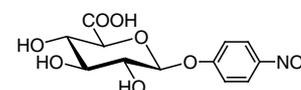
NMR P.287



N0618 4-Nitrophenyl β-D-Glucuronide
[Substrate for β-Glucuronidase]

100mg

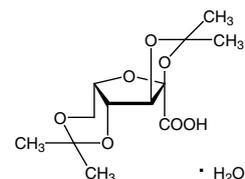
>98.0%(HPLC) $C_{12}H_{13}NO_9 = 315.23$ [10344-94-2] MFCD00036210
mp 93°C



Gulose

D2191 (-)-2,3:4,6-Di-O-isopropylidene-2-keto-L-gulonic Acid Monohydrate

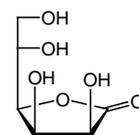
>97.0%(T) $C_{12}H_{18}O_7 \cdot H_2O = 274.27$ (Anh) [68539-16-2] MFCD00150517
Beil. 19(5)12,520 MI14-3199



5g

G0235 L-(+)-Gulonic Acid γ -Lactone

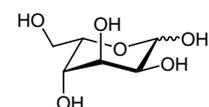
>98.0%(GC) $C_6H_{10}O_6 = 178.14$ [1128-23-0] MFCD00064331
mp 188°C



5g 25g

G0239 L-Gulose

>98.0%(HPLC) $C_6H_{12}O_6 = 180.16$ [6027-89-0] MFCD00136022
mp 132°C
Beil. 1(4)4334 MI14-4579

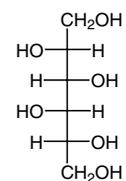


1g 5g 25g

10724 D-Iditol

100mg

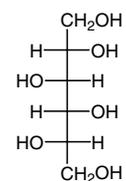
>98.0%(HPLC) C₆H₁₄O₆ = 182.17 [25878-23-3]
 mp 76°C bp 230°C
 Beil. 1,544



10725 L-Iditol

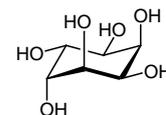
200mg

>98.0%(HPLC) C₆H₁₄O₆ = 182.17 [488-45-9]
 mp 77°C
 Beil. 1(4)2843



I0629 *allo*-Inositol

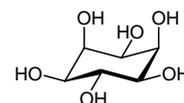
>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [643-10-7] MFCD00799555
 Beil. 6(4)7919
 NMR P.288



25mg

I0628 *epi*-Inositol

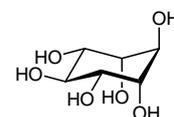
>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [488-58-4] MFCD00003863
 Beil. 6(4)7919
 NMR P.289



200mg

I0630 *muco*-Inositol

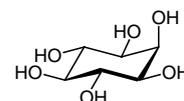
>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [41546-34-3] MFCD01321249
 mp 286°C
 Beil. 6(4)7920
 NMR P.290



100mg

I0040 *myo*-Inositol

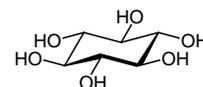
>99.0%(GC) C₆H₁₂O₆ = 180.16 [87-89-8] MFCD00077932
 mp 226°C
 Beil. 6(2)1157 MI14-4978 RTECS NM7520800



25g 500g

I0631 *scyllo*-Inositol

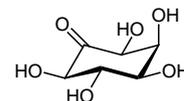
>99.0%(HPLC) C₆H₁₂O₆ = 180.16 [488-59-5] MFCD00065455
 Beil. 6(4)7920
 NMR P.291



200mg 1g

I0634 1*L*-*epi*-2-Inosose

>98.0%(HPLC) C₆H₁₀O₆ = 178.14 [33471-33-9] MFCD00038395
 NMR P.292

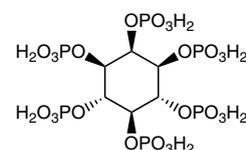


200mg

P0409 Phytic Acid

(ca. 50% in Water, ca. 1.1mol/L)

C₆H₁₈O₂₄P₆ = 660.03 [83-86-3] MFCD00082309
 MI14-7387 RTECS NM7525000



25g 500g

P0410 Phytin

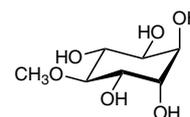
25g 500g

[3615-82-5] MFCD00082315
MI14-7387 RTECS NM7530000

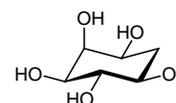
New

P2219 D-Pinitol

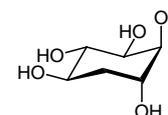
100mg 1g

>98.0%(HPLC) C₇H₁₄O₆ = 194.18 [10284-63-6] MFCD00216659
mp 188°C**Q0070 (+)-epi-Quercitol**

200mg

>97.0%(HPLC) C₆H₁₂O₅ = 164.16 [131435-06-8] MFCD06797162
NMR P.293**Q0071 (+)-proto-Quercitol**

100mg

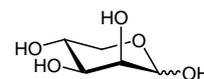
>97.0%(HPLC) C₆H₁₂O₅ = 164.16 [488-73-3] MFCD06797163
mp 237°C
MI14-8036
NMR P.294

Lyxose

L0073 D-(-)-Lyxose

>98.0%(HPLC) C₅H₁₀O₅ = 150.13 [1114-34-7] MFCD00064362
Beil. 31,56 MI14-5641

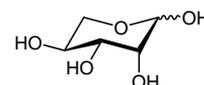
1g 5g 25g



L0153 L-(+)-Lyxose

>98.0%(HPLC) C₅H₁₀O₅ = 150.13 [1949-78-6] MFCD00064111
Beil. 1(4)4232

1g 5g



New

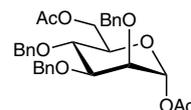
D5294 1,6-Di-O-acetyl-2,3,4-tri-O-benzyl- α -D-mannopyranose

1g

>95.0%(HPLC) $C_{31}H_{34}O_8 = 534.61$ [65556-30-1]

mp 96°C

NMR P.295



New

D4372 1,6:2,3-Dianhydro- β -D-mannopyranose

200mg

>98.0%(HPLC) $C_6H_8O_4 = 144.13$ [3868-03-9] MFCD18643031

mp 69°C

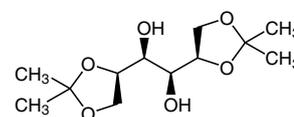
**D2024 1,2:5,6-Di-O-isopropylidene-D-mannitol**

5g 25g

>97.0%(GC) $C_{12}H_{22}O_6 = 262.30$ [1707-77-3] MFCD00003211

mp 120°C

Beil. 19(1)826

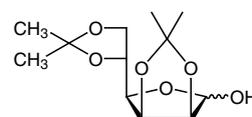
**D2447 2,3:5,6-Di-O-isopropylidene-D-mannofuranose**

5g

>98.0%(GC) $C_{12}H_{20}O_6 = 260.29$ [14131-84-1] MFCD00134206

mp 125°C

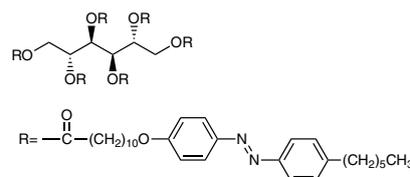
Beil. 19(5)12,5



New

H1452 1,2,3,4,5,6-Hexa-O-[11-[4-(4-hexylphenylazo)phenoxy]undecanoyl]-D-mannitol

1g 5g

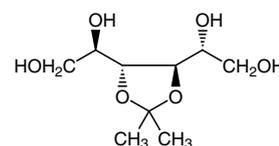
>97.0%(HPLC) $C_{180}H_{254}N_{12}O_{18} = 2874.08$ [1093077-77-0]**I0489 3,4-O-Isopropylidene-D-mannitol**

1g 5g

>96.0%(GC) $C_9H_{18}O_6 = 222.24$ [3969-84-4] MFCD00075122

mp 86°C

Beil. 19(5)3,653

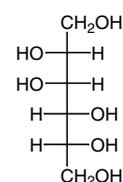
**M0044 D-Mannitol**

25g 500g

>99.0%(T) $C_6H_{14}O_6 = 182.17$ [69-65-8] MFCD00064287

mp 168°C

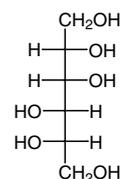
Beil. 1,534 MI14-5745 RTECS OP2060000



M1084 L-Mannitol

100mg

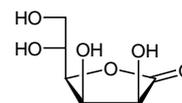
>97.0%(GC) C₆H₁₄O₆ = 182.17 [643-01-6] MFCD00154039
mp 165°C



M0958 D-Mannono-1,4-lactone

1g 5g

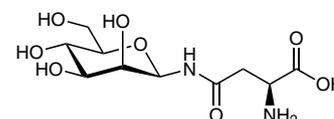
>97.0%(GC) C₆H₁₀O₆ = 178.14 [26301-79-1] MFCD00065020
mp 153°C
Beil. 18(3/4)3018



M2435 N^ω-(β-D-Mannopyranosyl)-L-asparagine

Price on request

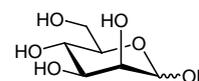
C₁₀H₁₈N₂O₈ = 294.26 [41355-52-6]
NMR P.296



M0045 D-(+)-Mannose

25g 100g 500g

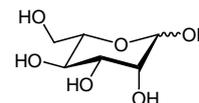
>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [3458-28-4] MFCD00064122
Beil. 31,284 MI14-5747



M1308 L-(-)-Mannose

1g

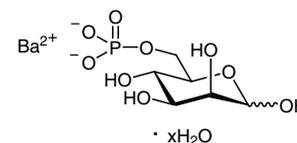
>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [10030-80-5] MFCD00136021
mp 131°C
Beil. 1(4)4333



M0046 Mannose-6-phosphate Barium Salt Hydrate

100mg

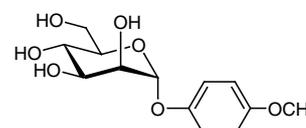
>85.0%(W) C₆H₁₁BaO₉P · xH₂O = 395.45(Anh) MFCD00067376



M1646 4-Methoxyphenyl α-D-Mannopyranoside

5g

>98.0%(HPLC) C₁₃H₁₈O₇ = 286.28 [28541-75-5]
mp 156°C
NMR P.297



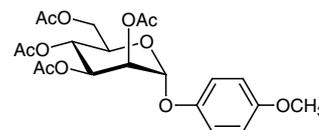
M1647 4-Methoxyphenyl 2,3,4,6-Tetra-O-acetyl- α -D-mannopyranoside

5g

>98.0%(HPLC) $C_{21}H_{26}O_{11}$ = 454.43 [17042-40-9]

mp 102°C

NMR P.298

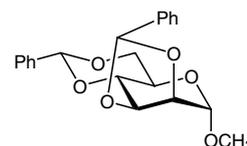
**M2061 Methyl 2,3:4,6-Di-O-benzylidene- α -D-mannopyranoside**

5g 25g

>98.0%(HPLC) $C_{21}H_{22}O_6$ = 370.40 [4148-71-4] MFCD00192286

mp 185°C

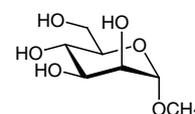
Beil. 19(4)6150

**M0368 Methyl α -D-Mannopyranoside**

25g 250g

>98.0%(HPLC) $C_7H_{14}O_6$ = 194.18 [617-04-9] MFCD00063262

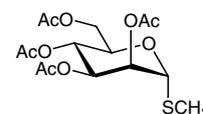
mp 192°C

**M1501 Methyl 2,3,4,6-Tetra-O-acetyl-1-thio- α -D-mannopyranoside**
(contains ca. 5% β -isomer)

5g

>95.0%(HPLC) $C_{15}H_{22}O_9S$ = 378.39 [64550-71-6] MFCD00080808

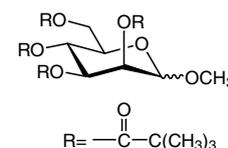
NMR P.299

**M2102 Methyl 2,3,4,6-Tetra-O-pivaloyl- α -D-mannopyranoside**

1g

>97.0%(HPLC) $C_{27}H_{46}O_{10}$ = 530.66

mp 102°C



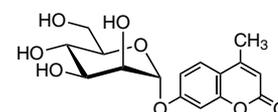
New

M3023 4-Methylumbelliferyl α -D-Mannopyranoside

25mg 100mg

>97.0%(HPLC) $C_{16}H_{18}O_8$ = 338.31 [28541-83-5] MFCD00067662

mp 217°C

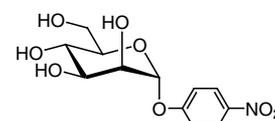
**N0619 4-Nitrophenyl α -D-Mannopyranoside**
[Substrate for α -Mannosidase]

1g

>98.0%(HPLC) $C_{12}H_{15}NO_8$ = 301.25 [10357-27-4] MFCD00066002

mp 180°C

Beil. 17(3/4)2951



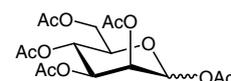
P1514 1,2,3,4,6-Penta-O-acetyl-D-mannopyranose

5g

>97.0%(GC) C₁₆H₂₂O₁₁ = 390.34 [25941-03-1] MFCD05864874

mp 68°C

NMR P.300



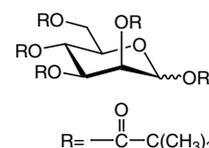
P1803 1,2,3,4,6-Penta-O-pivaloyl-D-mannopyranose

1g

>98.0%(GC) C₃₁H₅₂O₁₁ = 600.75 [220017-47-0]

mp 169°C

NMR P.301



New

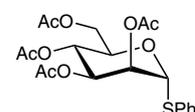
P2521 Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio-α-D-mannopyranoside

5g

>98.0%(HPLC) C₂₀H₂₄O₉S = 440.46 [108032-93-5] MFCD01862644

mp 85°C

NMR P.302



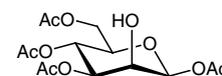
T1459 1,3,4,6-Tetra-O-acetyl-β-D-mannopyranose

1g 5g

>97.0%(GC) C₁₄H₂₀O₁₀ = 348.30 [18968-05-3] MFCD00012354

mp 162°C

Beil. 17(5)7,247

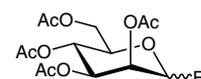


T2567 2,3,4,6-Tetra-O-acetyl-D-mannopyranosyl Fluoride

1g 5g

>95.0%(GC) C₁₄H₁₉FO₉ = 350.30 [174511-17-2]

NMR P.303



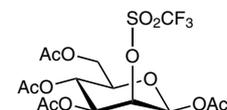
T2307 1,3,4,6-Tetra-O-acetyl-2-O-(trifluoromethanesulfonyl)-β-D-mannopyranose

100mg

>98.0%(GC) C₁₅H₁₉F₃O₁₂S = 480.36 [92051-23-5]

mp 122°C

NMR P.304

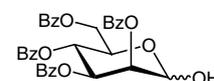


T2056 2,3,4,6-Tetra-O-benzoyl-D-mannopyranose

1g 5g

>93.0%(HPLC) C₃₄H₂₈O₁₀ = 596.59 [113544-59-5] MFCD02683399

mp 182°C

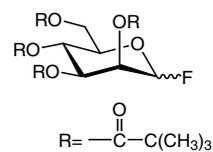


T2568 2,3,4,6-Tetra-O-pivaloyl-D-mannopyranosyl Fluoride

>95.0%(GC) $C_{26}H_{43}FO_9 = 518.62$

NMR P.305

1g

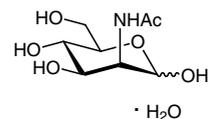


Mannosamine

A2160 N-Acetyl-D-mannosamine Monohydrate

>98.0%(HPLC) $C_8H_{15}NO_6 \cdot H_2O = 221.21(\text{Anh})$ [3615-17-6] MFCD00136044
mp 125°C

1g 5g



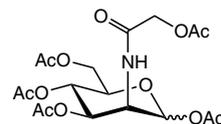
New

G0463 N-Glycolyl-D-mannosamine Pentaacetate

>93.0%(HPLC) $C_{18}H_{25}NO_{12} = 447.39$ [258824-38-3]

NMR P.306

100mg



T1733 1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α -D-mannopyranose

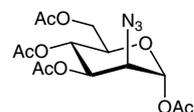
>98.0%(HPLC) $C_{14}H_{19}N_3O_9 = 373.32$ [68733-20-0] MFCD01321201

mp 132°C

Beil. 17(5)6,400

NMR P.307

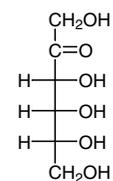
100mg



P1699 D-Psicose

100mg 1g

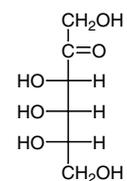
>99.0%(HPLC) C₆H₁₂O₆ = 180.16 [551-68-8] MFCD00083478
 mp 109°C
 Beil. 1(4)4400 MI14-7924



P1778 L-Psicose

100mg

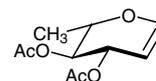
>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [16354-64-6]
 mp 113°C
 Beil. 1(4)4401



Rhamnose

D2752 3,4-Di-O-acetyl-6-deoxy-L-glucal

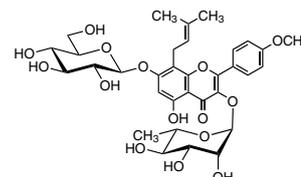
>95.0%(GC) $C_{10}H_{14}O_5 = 214.22$ [34819-86-8] MFCD00074970
d 1.14
Beil. 17(5)5,94



1g 5g

New I0862 Icariin

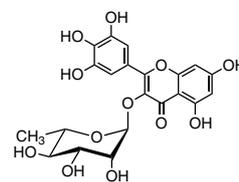
>96.0%(HPLC) $C_{33}H_{40}O_{15} = 676.67$ [489-32-7] MFCD00210516
mp 237°C
MI14-3617 RTECS DJ2980500



200mg 1g

New M2361 Myricitrin

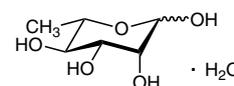
>98.0%(HPLC) $C_{21}H_{20}O_{12} = 464.38$ [17912-87-7] MFCD00016930
mp 197°C



10mg 50mg

R0013 L-(+)-Rhamnose Monohydrate

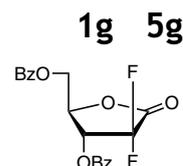
>98.0%(HPLC) $C_6H_{12}O_5 \cdot H_2O = 164.16(\text{Anh})$ [10030-85-0] MFCD00149363
mp 93°C
Beil. 31,65 MI14-8172



5g 25g

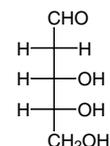
D4207 2-Deoxy-2,2-difluoro-D-erythro-pentonic Acid γ -Lactone 3,5-Dibenzoate

>98.0%(HPLC) $C_{19}H_{14}F_2O_6 = 376.31$ [122111-01-7] MFCD08458308
mp 123°C

**D0059 2-Deoxy-D-ribose**

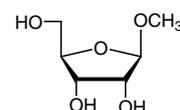
>98.0%(HPLC) $C_5H_{10}O_4 = 134.13$ [533-67-5] MFCD00135904
mp 90°C
MI14-2908 RTECS SB7230000

5g 25g

**M1965 Methyl β -D-Ribofuranoside**

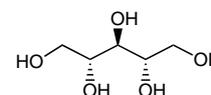
>97.0%(GC) $C_6H_{12}O_5 = 164.16$ [7473-45-2] MFCD00047075
mp 78°C
Beil. 17(4)2491

1g 5g

**A0171 Ribitol**

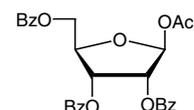
>97.0%(GC) $C_5H_{12}O_5 = 152.15$ [488-81-3] MFCD00064291
mp 102°C
Beil. 1,530 MI14-168 RTECS VJ0800000

1g 25g

**R0067 β -D-Ribofuranose 1-Acetate 2,3,5-Tribenzoate**

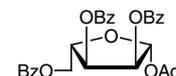
>98.0%(HPLC) $C_{28}H_{24}O_9 = 504.49$ [6974-32-9] MFCD00005357
mp 129°C
Beil. 17(5)6,213

5g 25g

**R0080 β -L-Ribofuranose 1-Acetate 2,3,5-Tribenzoate**

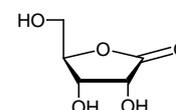
>98.0%(HPLC) $C_{28}H_{24}O_9 = 504.49$ [3080-30-6] MFCD04114304
mp 130°C

1g

**R0063 D-(+)-Ribono-1,4-lactone**

>97.0%(GC) $C_5H_8O_5 = 148.11$ [5336-08-3] MFCD00063241
mp 86°C
Beil. 18(5)4,224

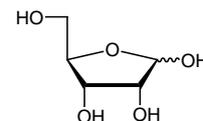
1g 5g



R0025 D-(-)-Ribose

>98.0%(GC) C₅H₁₀O₅ = 150.13 [50-69-1] MFCD00135453
Beil. 1(4)4214 MI14-8204 RTECS VJ2275000

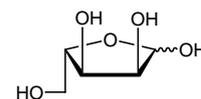
25g 250g



R0068 L-Ribose

>98.0%(HPLC) C₅H₁₀O₅ = 150.13 [24259-59-4] MFCD00167010
mp 90°C
Beil. 1(4)4214

1g 5g 25g

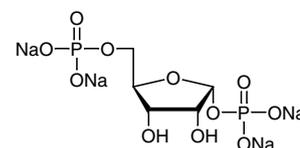


R0082 α-D-Ribose 1,5-Bis(phosphate) Tetrasodium Salt

C₅H₈Na₄O₁₁P₂ = 398.01 [113599-17-0]

NMR P.308

5mg

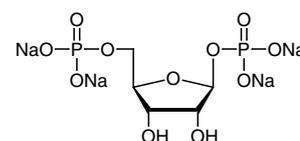


R0083 β-D-Ribose 1,5-Bis(phosphate) Tetrasodium Salt

C₅H₈Na₄O₁₁P₂ = 398.01

NMR P.309

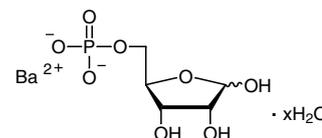
Price on request



R0026 Ribose-5-phosphate Barium Salt Hydrate

>95.0%(T) C₅H₉BaO₈P · xH₂O = 365.42(Anh) [15673-79-7] MFCD00047534
MI14-8205

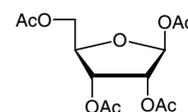
100mg 1g



R0066 Tetra-O-acetyl-β-D-ribofuranose

>98.0%(GC) C₁₃H₁₈O₉ = 318.28 [13035-61-5] MFCD00005358
mp 83°C
Beil. 17(5)6,205

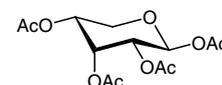
5g 25g



R0065 Tetra-O-acetyl-β-D-ribofuranose

>98.0%(GC) C₁₃H₁₈O₉ = 318.28 [4049-34-7] MFCD00006596
mp 110°C
Beil. 17(3/4)2459

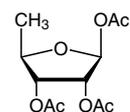
1g



T2607 1,2,3-Tri-O-acetyl-5-deoxy- β -D-ribofuranose

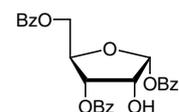
>98.0%(GC) $C_{11}H_{16}O_7 = 260.24$ [62211-93-2] MFCD08458459
mp 67°C
Beil. 17(4)2287

5g 25g

**T2641 1,3,5-Tri-O-benzoyl- α -D-ribofuranose**

>97.0%(HPLC) $C_{26}H_{22}O_8 = 462.45$ [22224-41-5] MFCD00080818
mp 140°C
Beil. 17(4)2505

5g 25g



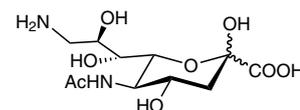
Sialic Acid-①

A2511 N-Acetyl-9-deoxy-9-aminoneuraminic Acid

$C_{11}H_{20}N_2O_8 = 308.29$ [112037-47-5] MFCD09841684

NMR P.310

Price on request



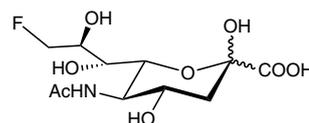
A2492 N-Acetyl-9-deoxy-9-fluoroneuraminic Acid

$C_{11}H_{18}FNO_8 = 311.26$ [85819-28-9]

mp 167°C

NMR P.311

Price on request

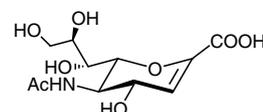


A2205 N-Acetyl-2,3-didehydro-2-deoxyneuraminic Acid

>98.0%(HPLC) $C_{11}H_{17}NO_8 = 291.26$ [24967-27-9] MFCD00057470

mp 134°C

5mg

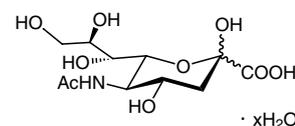


A0639 N-Acetylneuraminic Acid Hydrate

>98.0%(T) $C_{11}H_{19}NO_9 \cdot xH_2O = 309.27$ (Anh) [131-48-6] MFCD00006620

MI14-8484

100mg 1g 5g



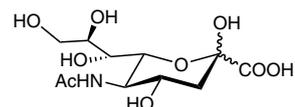
New A1105 N-Acetylneuraminic Acid

>98.0%(T) $C_{11}H_{19}NO_9 = 309.27$ [131-48-6] MFCD00006620

mp 186°C

MI14-8484

100mg 1g 5g

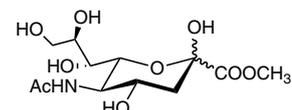


A1821 N-Acetylneuraminic Acid Methyl Ester

>95.0%(HPLC) $C_{12}H_{21}NO_9 = 323.30$ [22900-11-4]

NMR P.312

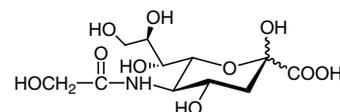
1g



G0336 N-Glycolylneuraminic Acid

>98.0%(HPLC) $C_{11}H_{19}NO_{10} = 325.27$ [1113-83-3] MFCD00057551

10mg



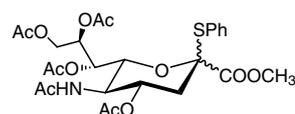
M1706 Methyl 5-Acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-2-S-phenyl-2-thio-D-glycero-β-D-galacto-2-nonulopyranosylonate

1g

>97.0%(HPLC) C₂₆H₃₃NO₁₂S = 583.61 [155155-64-9]

mp 183°C

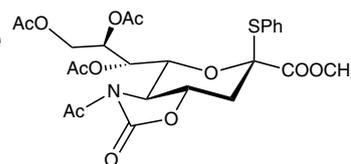
NMR P.313

**M2319 Methyl 5-Acetamido-7,8,9-tri-O-acetyl-5-N,4-O-carbonyl-3,5-dideoxy-2-S-phenyl-2-thio-D-glycero-β-D-galacto-2-nonulopyranosylonate**

200mg 1g

>96.0%(HPLC) C₂₅H₂₉NO₁₂S = 567.56 [934591-76-1]

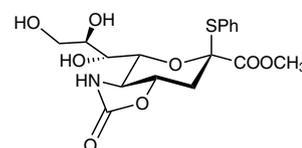
mp 152°C

**M2329 Methyl 5-N,4-O-Carbonyl-3,5-dideoxy-2-S-phenyl-2-thio-D-glycero-β-D-galacto-2-nonulopyranosylonate**

1g

>98.0%(HPLC) C₁₇H₂₁NO₈S = 399.41 [934591-79-4]

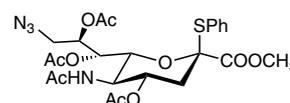
NMR P.314

**New M2695 Methyl (Phenyl 5-Acetamido-4,7,8-tri-O-acetyl-9-azido-3,5,9-trideoxy-2-thio-D-glycero-β-D-galacto-2-nonulopyranosid)onate**

100mg

>97.0%(HPLC) C₂₄H₃₀N₄O₁₀S = 566.58 [219814-65-0]

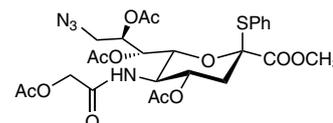
NMR P.315

**New M2696 Methyl (Phenyl 5-Acetoxyacetamido-4,7,8-tri-O-acetyl-9-azido-3,5,9-trideoxy-2-thio-D-glycero-β-D-galacto-2-nonulopyranosid)onate**

100mg

>93.0%(HPLC) C₂₆H₃₂N₄O₁₂S = 624.62 [1195053-25-8]

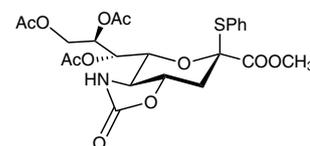
NMR P.316

**M2330 Methyl 7,8,9-Tri-O-acetyl-5-N,4-O-carbonyl-3,5-dideoxy-2-S-phenyl-2-thio-D-glycero-β-D-galacto-2-nonulopyranosylonate**

Price on request

C₂₃H₂₇NO₁₁S = 525.53

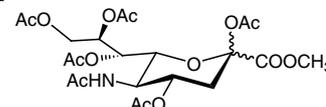
NMR P.317

**M1707 2,4,7,8,9-Penta-O-acetyl-N-acetylneuraminic Acid Methyl Ester**

Price on request

C₂₂H₃₁NO₁₄ = 533.48 [73208-82-9]

mp 157°C



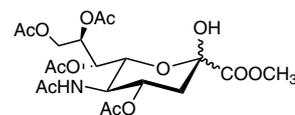
Sialic Acid-③

A1822 4,7,8,9-Tetra-O-acetyl-N-acetylneuraminic Acid Methyl Ester

1g

>90.0%(HPLC) $C_{20}H_{29}NO_{13}$ = 491.45 [84380-10-9]

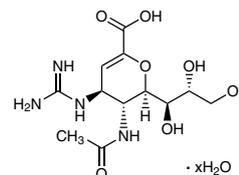
NMR P.318



New Z0023 Zanamivir Hydrate

100mg

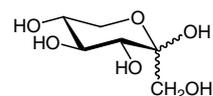
>98.0%(HPLC)(T) $C_{12}H_{20}N_4O_7 \cdot xH_2O$ = 332.31(Anh) [551942-41-7]



S0390 D-Sorbose

100mg

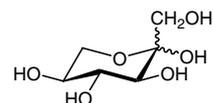
>98.0%(HPLC) $C_6H_{12}O_6 = 180.16$ [3615-56-3] MFCD00151095
 mp 158°C
 Beil. 1(4)4411



S0066 L-(-)-Sorbose

25g

>98.0%(HPLC) $C_6H_{12}O_6 = 180.16$ [87-79-6] MFCD00151097
 mp 165°C
 Beil. 1(4)4412 MI14-8726 RTECS WG3195025

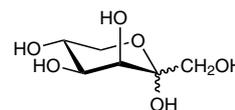


Tagatose

T1501 D-Tagatose

>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [87-81-0] MFCD00134449
mp 132°C
Beil. 1(4)4414 MI14-9030 RTECS WW1100000

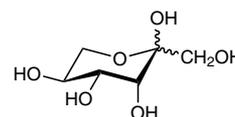
1g 5g



T2535 L-Tagatose

>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [17598-82-2]
mp 131°C
Beil. 1(4)4415 MI14-9030

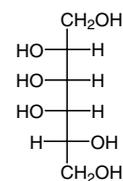
100mg



T1398 D-Talitol

>98.0%(HPLC) C₆H₁₄O₆ = 182.17 [643-03-8] MFCD00191491
mp 88°C

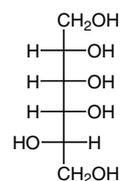
100mg



T2536 L-Talitol

>98.0%(HPLC) C₆H₁₄O₆ = 182.17 [60660-58-4]

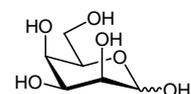
100mg



T0869 D-(+)-Talose

>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [2595-98-4] MFCD00135834
mp 134°C
Beil. 31,283

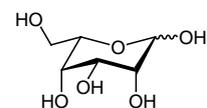
100mg 500mg



T1767 L-(-)-Talose

>98.0%(HPLC) C₆H₁₂O₆ = 180.16 [23567-25-1] MFCD00135850
mp 133°C

100mg



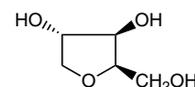
Xylose-①

New

A2635 1,4-Anhydro-D-xylitol

>97.0%(HPLC) $C_5H_{10}O_4 = 134.13$ [53448-53-6]
bp 160°C /0.2mmHg

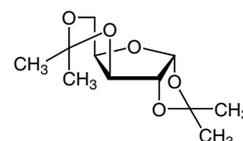
20mg 100mg



D2616 1,2:3,5-Di-O-isopropylidene- α -D-xylofuranose

>98.0%(GC) $C_{11}H_{18}O_5 = 230.26$ [20881-04-3] MFCD00063224
mp 45°C bp 125°C /1mmHg
Beil. 19(3/4)6076

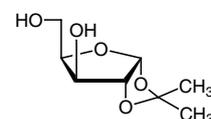
5g



I0721 1,2-O-Isopropylidene- α -D-xylofuranose

>98.0%(GC) $C_8H_{14}O_5 = 190.20$ [20031-21-4] MFCD00063295
mp 70°C
Beil. 19(5)9,435

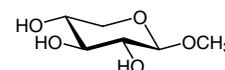
5g 25g



M1253 Methyl- β -D-xylopyranoside

>96.0%(GC) $C_6H_{12}O_5 = 164.16$ [612-05-5] MFCD00047532
mp 155°C
Beil. 17(5)6,92

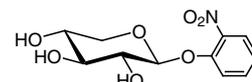
5g 25g



N0868 2-Nitrophenyl β -D-Xylopyranoside

>98.0%(HPLC) $C_{11}H_{13}NO_7 = 271.23$ [10238-27-4] MFCD00047515
mp 173°C

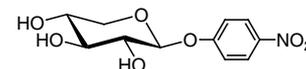
100mg



N0620 4-Nitrophenyl β -D-Xylopyranoside [Substrate for β -Xylosidase]

>98.0%(HPLC) $C_{11}H_{13}NO_7 = 271.23$ [2001-96-9] MFCD00047519
mp 160°C
Beil. 17(3/4)2438

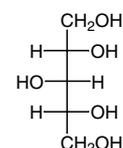
100mg



X0018 Xylitol

>98.0%(T) $C_5H_{12}O_5 = 152.15$ [87-99-0] MFCD00064292
mp 92°C
Beil. 1,531 MI14-10085 RTECS ZF0800000

25g 500g



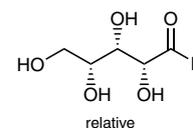
多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用はお避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

New

X0020 DL-Xylose

>98.0%(GC) C₅H₁₀O₅ = 150.13 [25990-60-7] MFCD00198055
Beil. 31,61

1g

**X0019 D-(+)-Xylose**

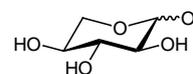
>98.0%(HPLC) C₅H₁₀O₅ = 150.13 [58-86-6] MFCD00151475
mp 151°C
Beil. 31,47 MI14-10087 RTECS ZF2285000

25g 500g

**X0021 L-(-)-Xylose**

>97.0%(T) C₅H₁₀O₅ = 150.13 [609-06-3] MFCD00151096
mp 150°C
Beil. 31,55

5g 25g



Disaccharide-①

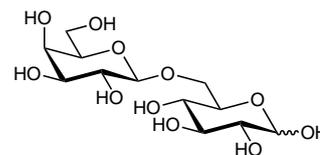
A2630 Allolactose

$C_{12}H_{22}O_{11}$ = 342.30 [28447-39-4] MFCD15145331

mp 168°C

NMR P.319

Price on request



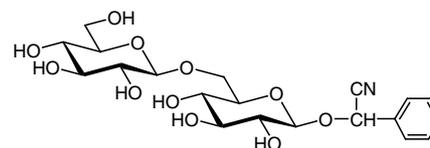
A0443 Amygdalin

>97.0%(HPLC) $C_{20}H_{27}NO_{11}$ = 457.43 [29883-15-6] MFCD00006598

mp 213°C

Beil. 17(3/4)3614 RTECS 008450000

1g 10g

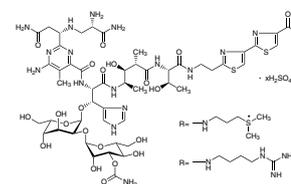


New B3972 Bleomycin Sulfate (mixture)

>85.0%(HPLC) [9041-93-4] MFCD00070310

MI14-1318 RTECS EC5991990

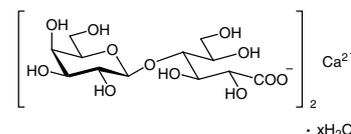
10mg 50mg



L0006 Calcium Lactobionate Hydrate

>97.0%(T) $C_{24}H_{42}CaO_{24} \cdot xH_2O$ = 754.65(Anh) [5001-51-4] MFCD00135895

25g

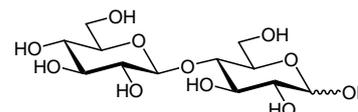


C0056 D-(+)-Cellobiose

>98.0%(HPLC) $C_{12}H_{22}O_{11}$ = 342.30 [528-50-7] MFCD00136034

Beil. 31,380 MI14-1961

5g 25g



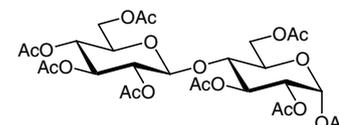
C0861 α -D-Cellobiose Octaacetate

>98.0%(GC) $C_{28}H_{38}O_{19}$ = 678.59 [5346-90-7] MFCD00009600

mp 232°C

Beil. 17(3/4)3589

25g



C1527 Crocin (Gardenia Fruits Extract)

$C_{44}H_{64}O_{24}$ = 976.97 [42553-65-1] MFCD00017495

MI14-2589 RTECS HL7380000

25g

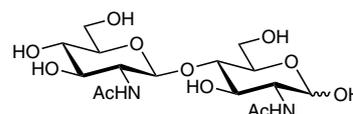
D4215 N,N'-Diacetylchitobiose

20mg

>98.0%(HPLC) $C_{16}H_{28}N_2O_{11} = 424.40$ [35061-50-8] MFCD00077715

mp 247°C

NMR P.320



New

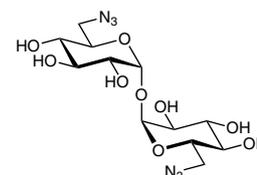
D5372 6,6'-Diazido-6,6'-dideoxytrehalose

50mg

>93.0%(HPLC) $C_{12}H_{20}N_6O_9 = 392.33$ [18933-88-5]

mp 211°C

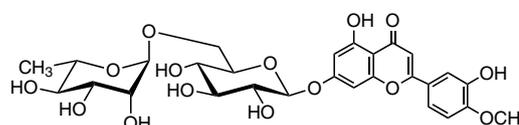
NMR P.321

**D3908 Diosmin**

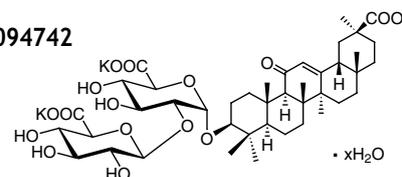
5g 25g

>85.0%(HPLC) $C_{28}H_{32}O_{15} = 608.55$ [520-27-4] MFCD00009772

Beil. 18(4)3270 MI14-3297

**G0270 Dipotassium Glycyrrhizinate Hydrate**

25g

>75.0%(HPLC) $C_{42}H_{60}K_2O_{16} \cdot xH_2O = 899.12(\text{Anh})$ [68797-35-3] MFCD02094742

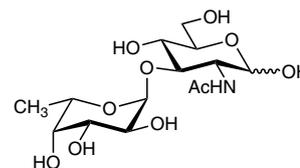
New

F1030 Fuc α (1-3)GlcNAc

Price on request

 $C_{14}H_{25}NO_{10} = 367.35$ [52630-68-9] MFCD00153896

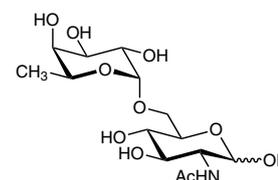
NMR P.322

**F0897 Fuc α (1-6)GlcNAc**

Price on request

 $C_{14}H_{25}NO_{10} = 367.35$ [33639-80-4] MFCD04973531

NMR P.323



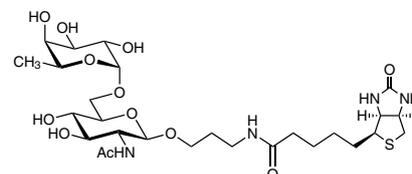
New

F1021 Fuc α (1-6)GlcNAc-β-propylamido-biotin

Price on request

 $C_{27}H_{46}N_4O_{12}S = 650.74$

NMR P.324

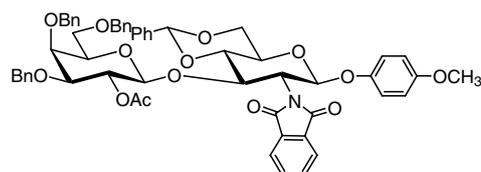


Disaccharide-③

G0374 Gal[2Ac,346Bn] β (1-3) GlcNPhth[46Bzd]- β -MP

$C_{57}H_{55}NO_{14} = 978.06$

Price on request



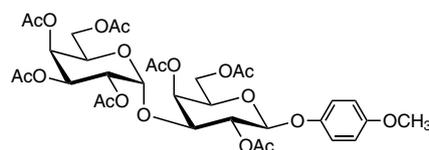
New

G0460 Gal[2346Ac] α (1-3)Gal[246Ac]- β -MP

$C_{33}H_{42}O_{19} = 742.68$ [1253645-85-0]

NMR P.325

Price on request



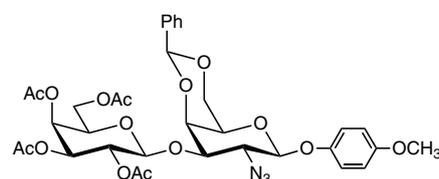
G0330 Gal[2346Ac] β (1-3)GalN₃[46Bzd]- β -MP

1g 5g

>95.0%(HPLC) $C_{34}H_{39}N_3O_{15} = 729.69$

mp 193°C

NMR P.326



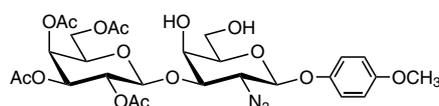
New

G0329 Gal[2346Ac] β (1-3)GalN₃- β -MP

$C_{27}H_{35}N_3O_{15} = 641.58$

NMR P.327

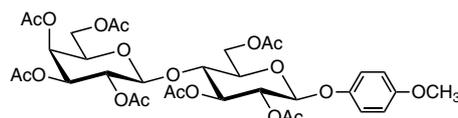
Price on request



M1694 Gal[2346Ac] β (1-4)Glc[236Ac]- β -MP

Price on request

$C_{33}H_{42}O_{19} = 742.68$ [160227-12-3]



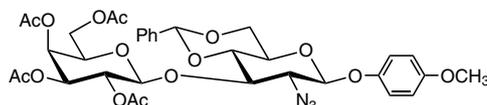
G0309 Gal[2346Ac] β (1-3)GlcN₃[46Bzd]- β -MP

1g 5g

>98.0%(HPLC) $C_{34}H_{39}N_3O_{15} = 729.69$

mp 172°C

NMR P.328

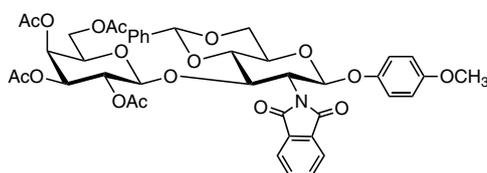


G0311 Gal[2346Ac] β (1-3)GlcNPhth[46Bzd]- β -MP

1g 5g

>97.0%(HPLC) $C_{42}H_{43}NO_{17} = 833.80$

NMR P.329

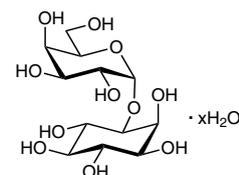


試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

G0298 Galactinol Hydrate

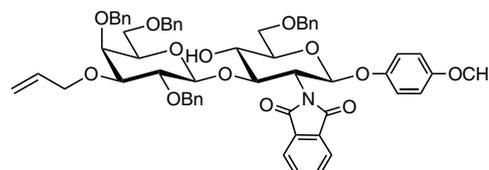
100mg 1g

>99.0%(HPLC) $C_{12}H_{22}O_{11} \cdot xH_2O = 342.30(\text{Anh})$ [3687-64-7]
 mp 221°C
 Beil. 17(3/4)3008

**G0379 Gal[3All,246Bn]β(1-3)GlcNPhth[6Bn]-β-MP**

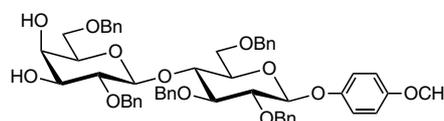
Price on request

$C_{58}H_{59}NO_{13} = 978.10$

**M1686 Gal[26Bn]β(1-4)Glc[236Bn]-β-MP**

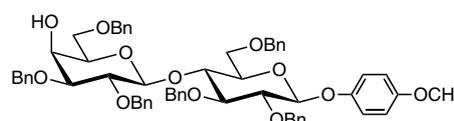
1g 5g

>98.0%(HPLC) $C_{54}H_{58}O_{12} = 899.05$ [358681-61-5]
 mp 130°C
 NMR P.330

**M1726 Gal[236Bn]β(1-4)Glc[236Bn]-β-MP**

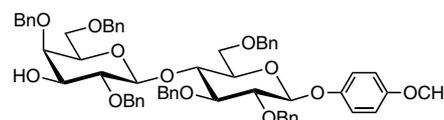
1g 5g

>92.0%(HPLC) $C_{61}H_{64}O_{12} = 989.17$ [150412-81-0]

**M1727 Gal[246Bn]β(1-4)Glc[236Bn]-β-MP**

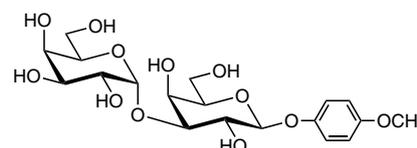
1g

>95.0%(HPLC) $C_{61}H_{64}O_{12} = 989.17$ [717132-49-5]
 NMR P.331

**New G0461 Galα(1-3)Gal-β-MP**

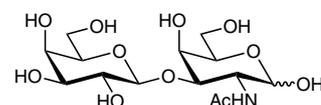
Price on request

$C_{19}H_{28}O_{12} = 448.42$
 NMR P.332

**New G0439 Galβ(1-3)GalNAc**

Price on request

$C_{14}H_{25}NO_{11} = 383.35$ [20972-29-6] MFCD00063995
 NMR P.333



Disaccharide-⑤

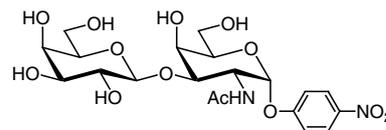
G0375 Gal β (1-3)GalNAc- α -pNP

5mg

>97.0%(HPLC) $C_{20}H_{28}N_2O_{13}$ = 504.45 [59837-14-8] MFCD00064051

mp 228°C

NMR P.334

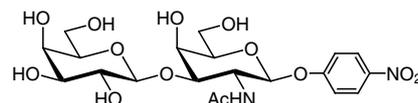


G0344 Gal β (1-3)GalNAc- β -pNP

5mg

>98.0%(HPLC) $C_{20}H_{28}N_2O_{13}$ = 504.45 [59837-15-9]

NMR P.335



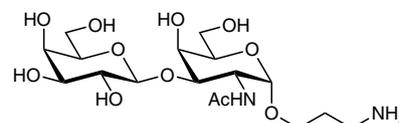
New

G0528 Gal β (1-3)GalNAc- α -propylamine

Price on request

$C_{17}H_{32}N_2O_{11}$ = 440.45 [100496-29-5]

NMR P.336

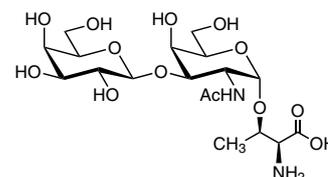


G0340 Gal β (1-3)GalNAc- α -Thr

5mg

>97.0%(HPLC) $C_{18}H_{32}N_2O_{13}$ = 484.46 [60280-58-2] MFCD02683396

NMR P.337

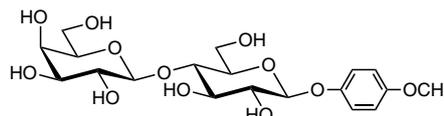


M1805 Gal β (1-4)Glc- β -MP

1g

>96.0%(HPLC) $C_{19}H_{28}O_{12}$ = 448.42 [150412-80-9]

Beil. 17(3/4)3528



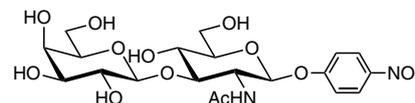
G0420 Gal β (1-3)GlcNAc- β -pNP

Price on request

$C_{20}H_{28}N_2O_{13}$ = 504.45 [57467-13-7] MFCD00037620

mp 186°C

NMR P.338

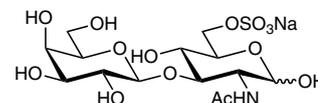


New

G0527 Gal β (1-3)GlcNAc[6S]

Price on request

$C_{14}H_{24}NNaO_{14}S$ = 485.39

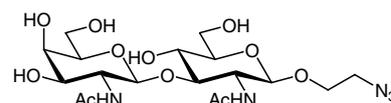


G0373 GalNAc β (1-3)GlcNAc-β-ethylazide

Price on request

$C_{18}H_{31}N_5O_{11} = 493.47$

NMR P.339

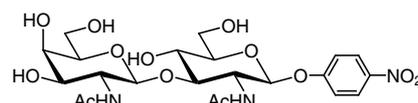


G0352 GalNAc β (1-3)GlcNAc-β-pNP

2mg

>98.0%(HPLC) $C_{22}H_{31}N_3O_{13} = 545.50$ [1456553-26-6]

NMR P.340

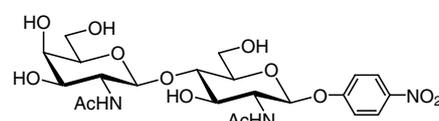


G0356 GalNAc β (1-4)GlcNAc-β-pNP

2mg

>98.0%(HPLC) $C_{22}H_{31}N_3O_{13} = 545.50$ [872578-72-8]

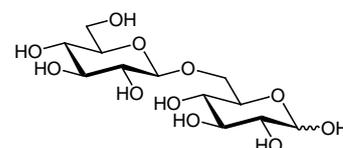
NMR P.341



G0026 Gentiobiose

100mg

>96.0%(HPLC) $C_{12}H_{22}O_{11} = 342.30$ [554-91-6] MFCD00198056
Beil. 31,397 MI14-4396

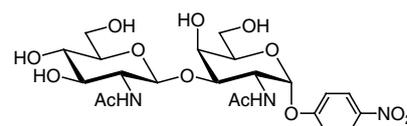


G0376 GlcNAc β (1-3)GalNAc-α-pNP

5mg

>98.0%(HPLC) $C_{22}H_{31}N_3O_{13} = 545.50$ [125455-64-3]

NMR P.342

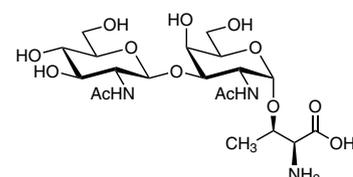


G0341 GlcNAc β (1-3)GalNAc-α-Thr

2mg

>97.0%(HPLC) $C_{20}H_{35}N_3O_{13} = 525.51$ [286959-52-2]

NMR P.343

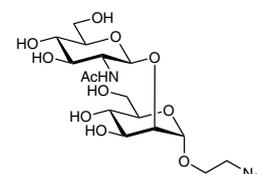


G0337 GlcNAc β (1-2)Man-α-ethylazide

100mg

>98.0%(HPLC) $C_{16}H_{28}N_4O_{11} = 452.42$

NMR P.344



Disaccharide-⑦

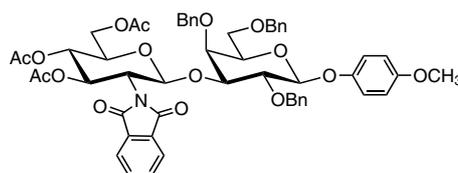
G0299 GlcNPhth[346Ac]β(1-3)Gal[246Bn]-β-MP

200mg 1g

>98.0%(HPLC) C₅₄H₅₅NO₁₆ = 974.03

mp 175°C

NMR P.345

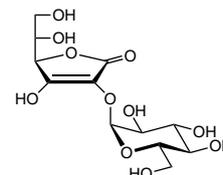


G0394 2-O-α-D-Glucopyranosyl-L-ascorbic Acid

1g 5g

>98.0%(HPLC)(T) C₁₂H₁₈O₁₁ = 338.27 [129499-78-1] MFCD00925623

mp 160°C

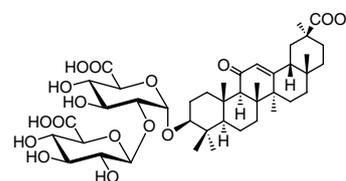


G0150 Glycyrrhizin

1g 25g

>93.0%(T) C₄₂H₆₂O₁₆ = 822.94 [1405-86-3] MFCD00065194

Beil. 18(3/4)5156 MI14-4505 RTECS MD2025000

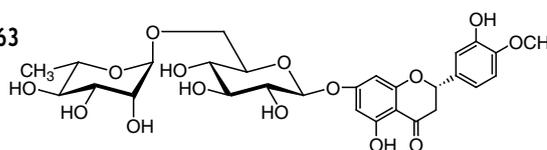


H0049 Hesperidin

25g 100g 500g

>90.0%(HPLC)(T) C₂₈H₃₄O₁₅ = 610.57 [520-26-3] MFCD00075663

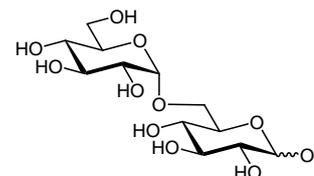
Beil. 18(3/4)3219 MI14-4671 RTECS MK6650000



I0231 Isomaltose

100mg 1g

>97.0%(GC) C₁₂H₂₂O₁₁ = 342.30 [499-40-1] MFCD00065373

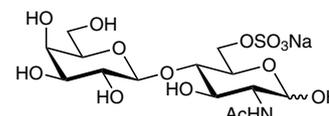


New L0324 L2

Price on request

C₁₄H₂₄NNaO₁₄S = 485.39 [145447-78-5] MFCD23160317

NMR P.346

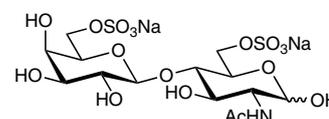


New L0325 L4

Price on request

C₁₄H₂₃NNa₂O₁₇S₂ = 587.43 [321897-68-1] MFCD23160316

NMR P.347

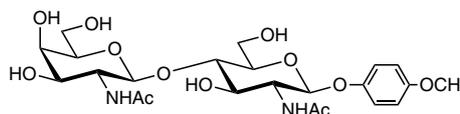


M1733 LacDiNAc MP Glycoside

5mg

 $C_{23}H_{34}N_2O_{12} = 530.53$

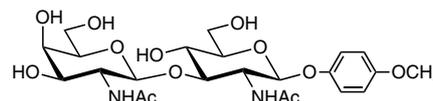
NMR P.348

**M1776 LacDiNAc(I) MP Glycoside**

5mg

 $C_{23}H_{34}N_2O_{12} = 530.53$

NMR P.349

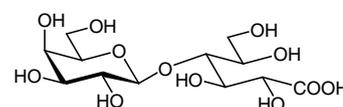
**L0005 Lactobionic Acid**

(mixture of Acid form and Lactone form)

25g 100g 500g

>96.0%(T) $C_{12}H_{22}O_{12} = 358.30$ [96-82-2] MFCD00078147

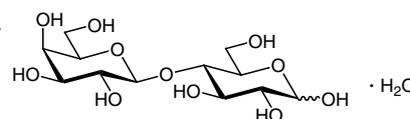
Beil. 31,415 MI14-5342

**L0008 D-(+)-Lactose Monohydrate**

25g 500g

>98.0%(HPLC) $C_{12}H_{22}O_{11} \cdot H_2O = 342.30$ (Anh) [64044-51-5] MFCD00150747

Beil. 31,408 MI14-5343

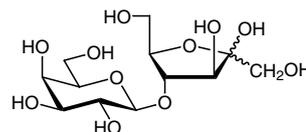
**L0140 Lactulose**

25g

>98.0%(HPLC) $C_{12}H_{22}O_{11} = 342.30$ [4618-18-2] MFCD00151469

mp 169°C

MI14-5346 RTECS LS6965000

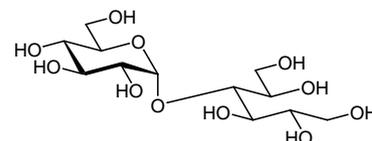
**M0601 Maltitol**

25g 500g

>95.0%(GC) $C_{12}H_{24}O_{11} = 344.31$ [585-88-6] MFCD00006600

mp 146°C

Beil. 17(5)7,145 RTECS LZ4394000

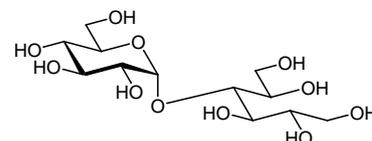
**M0797 Maltitol**

25g 100g 500g

>98.0%(GC) $C_{12}H_{24}O_{11} = 344.31$ [585-88-6] MFCD00006600

mp 151°C

Beil. 17(5)7,145 RTECS LZ4394000

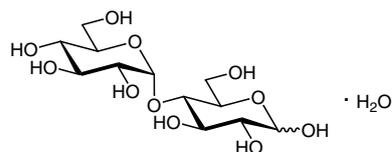


Disaccharide-⑨

M0037 D-(+)-Maltose Monohydrate

25g 100g 500g

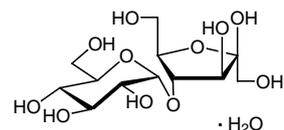
>98.0%(HPLC) $C_{12}H_{22}O_{11} \cdot H_2O = 342.30(\text{Anh})$ [6363-53-7] MFCD00149343
Beil. 17(3/4)3057 MI14-5714 RTECS 005250000



M1138 Maltulose Monohydrate

1g

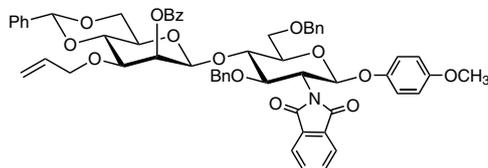
>98.0%(GC) $C_{12}H_{22}O_{11} \cdot H_2O = 342.30(\text{Anh})$ [17606-72-3] MFCD00191667
mp 113°C



M2442 Man[2Bz,3All,46Bzd] β(1-4)GlcNPhth[36Bn]-β-MP

Price on request

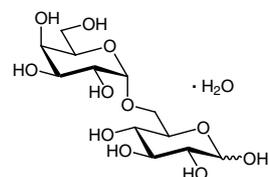
$C_{58}H_{55}NO_{14} = 990.07$



M0050 D-(+)-Melibiose Monohydrate

1g 10g

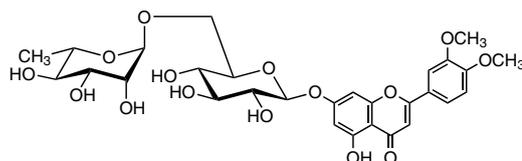
>99.0%(HPLC) $C_{12}H_{22}O_{11} \cdot H_2O = 342.30(\text{Anh})$ [66009-10-7] MFCD00198188
Beil. 31,421 MI14-5820



New M0338 Methyl Hesperidine

5g 25g

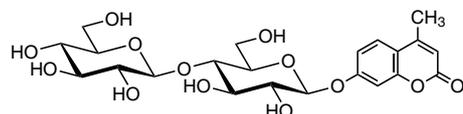
>90.0%(E) $C_{29}H_{36}O_{15} = 624.59$ [11013-97-1] MFCD01741310



New M3028 4-Methylumbelliferyl β-D-Cellobioside

100mg 500mg

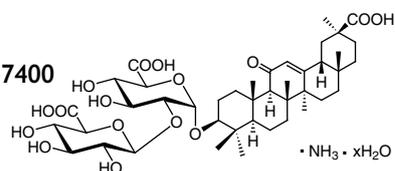
>98.0%(HPLC) $C_{22}H_{28}O_{13} = 500.45$ [72626-61-0] MFCD00063279



G0151 Monoammonium Glycyrrhizinate Hydrate

1g 25g

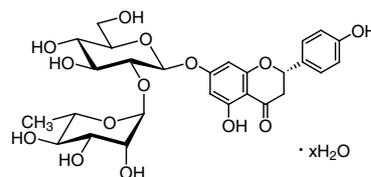
>75.0%(HPLC) $C_{42}H_{65}NO_{16} \cdot xH_2O = 839.97(\text{Anh})$ [53956-04-0] MFCD00167400
mp 217°C
RTECS LZ6500000



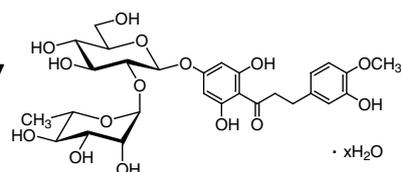
試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

N0073 Naringin Hydrate**25g**

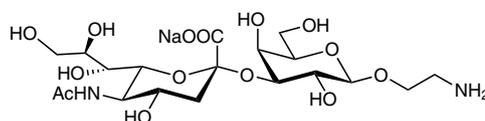
>90.0%(T) $C_{27}H_{32}O_{14} \cdot xH_2O = 580.54(\text{Anh})$ [10236-47-2] MFCD00148888
 Beil. 18,528 MI14-6425 RTECS QN6340000

**N0675 Neohesperidin Dihydrochalcone Hydrate****5g 25g**

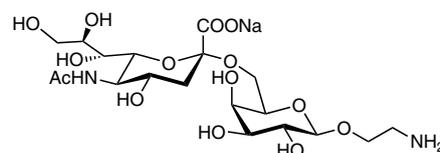
>98.0%(T) $C_{28}H_{36}O_{15} \cdot xH_2O = 612.58(\text{Anh})$ [20702-77-6] MFCD03840557
 MI14-6452 RTECS LZ5785000

**N0947 Neu5Ac α (2-3)Gal- β -ethylamine****Price on request**

$C_{19}H_{33}N_2NaO_{14} = 536.46$

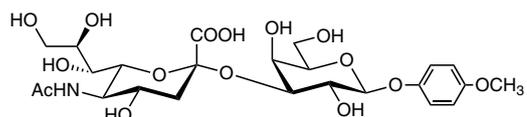
**N0948 Neu5Ac α (2-6)Gal- β -ethylamine****Price on request**

$C_{19}H_{33}N_2NaO_{14} = 536.46$

**N0791 Neu5Ac α (2-3)Gal β MP Glycoside****10mg 50mg**

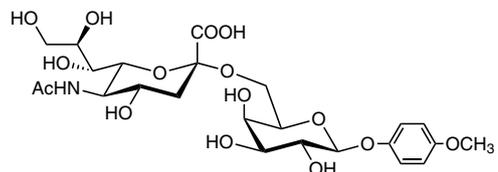
>95.0%(HPLC) $C_{24}H_{35}NO_{15} = 577.54$ [159922-54-0]

NMR P.350

**N0792 Neu5Ac α (2-6)Gal β MP Glycoside****10mg 50mg**

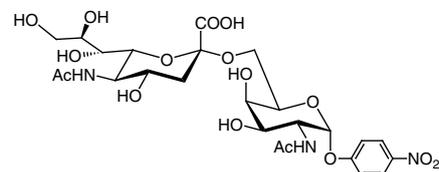
>95.0%(HPLC) $C_{24}H_{35}NO_{15} = 577.54$

NMR P.351

**N0890 Neu5Ac α (2-6)GalNAc- α -pNP****5mg**

>98.0%(HPLC) $C_{25}H_{35}N_3O_{16} = 633.56$

NMR P.352

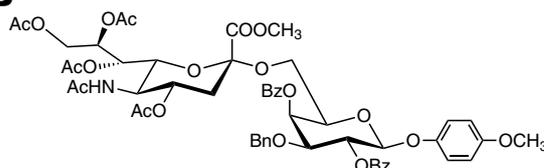


**M1761 Neu5Ac[1Me,4789Ac]
α (2-6)Gal[24Bz,3Bn]-β-MP**

200mg

>95.0%(HPLC) C₅₄H₅₉NO₂₁ = 1058.05

NMR P.353

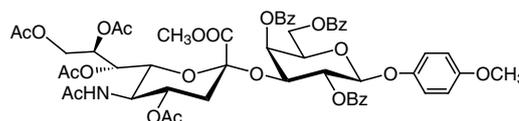


**N0846 Neu5Ac[1Me,4789Ac]
α (2-3)Gal[246Bz]-β-MP**

200mg 1g

>95.0%(HPLC) C₅₄H₅₇NO₂₂ = 1072.04

NMR P.354

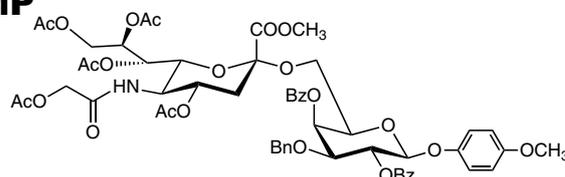


**M1763 Neu5GcAc[1Me,4789Ac]
α (2-6)Gal[24Bz,3Bn]-β-MP**

200mg

>97.0%(HPLC) C₅₆H₆₁NO₂₃ = 1116.09

NMR P.355

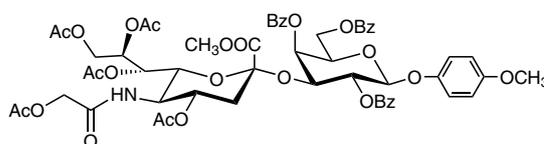


**N0816 Neu5GcAc[1Me,4789Ac]
α (2-3)Gal[246Bz]-β-MP**

Price on request

C₅₆H₅₉NO₂₄ = 1130.07

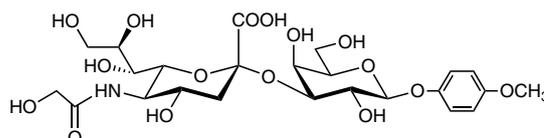
NMR P.356



N0793 Neu5Gc α (2-3)Gal β MP Glycoside

5mg

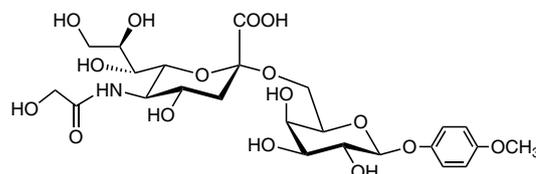
>95.0%(HPLC) C₂₄H₃₅NO₁₆ = 593.54



N0794 Neu5Gc α (2-6)Gal β MP Glycoside

5mg

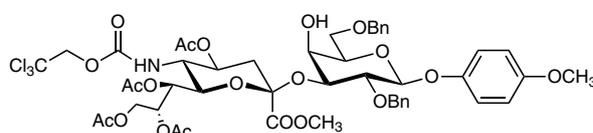
>97.0%(HPLC) C₂₄H₃₅NO₁₆ = 593.54 [1072896-38-8]



**M1729 Neu5Troc[1Me,4789Ac] α (2-3)Gal[26Bn]-
β-MP**

1g

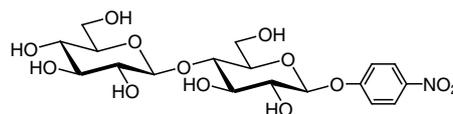
>98.0%(HPLC) C₄₈H₅₆Cl₃NO₂₀ = 1073.31 [610763-72-9]



N0867 4-Nitrophenyl β -D-Cellobioside

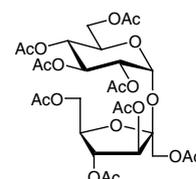
100mg

>98.0%(HPLC) $C_{18}H_{25}NO_{13}$ = 463.39 [3482-57-3] MFCD00069845
Beil. 17(4)3523

**S0052 Octa-O-acetyl D-(+)-Sucrose**

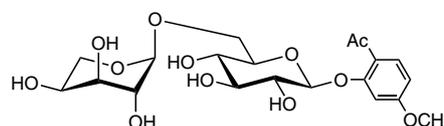
25g 500g

>98.0%(T) $C_{28}H_{38}O_{19}$ = 678.59 [126-14-7] MFCD00006623
mp 86°C
MI14-8881 RTECS WN6620000

**P1879 Paeonolide**

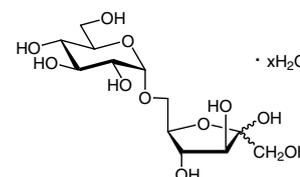
10mg

>97.0%(HPLC) $C_{20}H_{28}O_{12}$ = 460.43 [72520-92-4]
Beil. 17(4)3462

**P1234 Palatinose Hydrate**

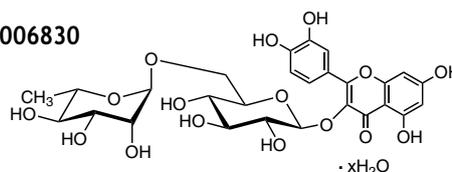
25g 500g

>98.0%(HPLC) $C_{12}H_{22}O_{11} \cdot xH_2O$ = 342.30(Anh) [13718-94-0] MFCD00076094
mp 123°C
Beil. 17(5)7,215 MI14-5182

**R0035 Rutin Hydrate**

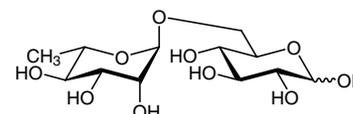
25g

>98.0%(T) $C_{27}H_{30}O_{16} \cdot xH_2O$ = 610.52(Anh) [207671-50-9] MFCD00006830
MI14-8304 RTECS VM2975000

**R0062 Rutinose**

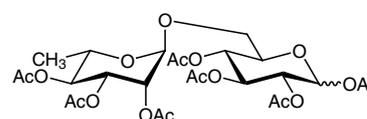
100mg

>95.0%(HPLC) $C_{12}H_{22}O_{10}$ = 326.30 [90-74-4] MFCD00161473
MI14-8305

**H0628 Rutinose Heptaacetate**

1g

>98.0%(GC) $C_{26}H_{36}O_{17}$ = 620.56 [29202-64-0] MFCD00161474
mp 168°C
MI14-8305

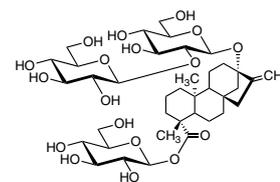


New

S0594 Stevioside

25g

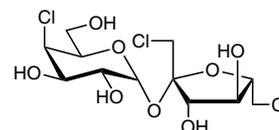
>85.0%(HPLC) $C_{38}H_{60}O_{18} = 804.88$ [57817-89-7] MFCD00079561
 mp 236°C
 Beil. 17(4)3618 MI14-8810 RTECS NZ8175000



S0839 Sucralose

5g 25g 100g

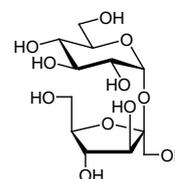
>98.0%(HPLC) $C_{12}H_{19}Cl_3O_8 = 397.63$ [56038-13-2] MFCD03648615
 MI14-8880 RTECS LW5440140



S0111 D-(+)-Sucrose

25g 500g

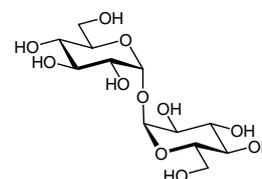
>99.0%(HPLC) $C_{12}H_{22}O_{11} = 342.30$ [57-50-1] MFCD00006626
 Beil. 31,424 MI14-8881 RTECS WN6500000



T0832 D-(+)-Trehalose Anhydrous

5g 25g

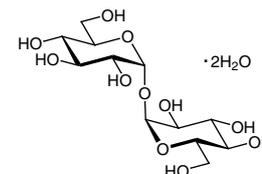
>98.0%(GC) $C_{12}H_{22}O_{11} = 342.30$ [99-20-7] MFCD00006628
 mp 205°C
 Beil. 17(3/4)3505 MI14-9580



T0331 D-(+)-Trehalose Dihydrate

25g 500g

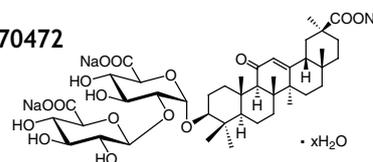
>98.0%(GC) $C_{12}H_{22}O_{11} \cdot 2H_2O = 342.30(Anh)$ [6138-23-4] MFCD00071594
 Beil. 17(3/4)3505 MI14-9580 RTECS LZ5776547



G0217 Trisodium Glycyrrhizinate Hydrate

25g

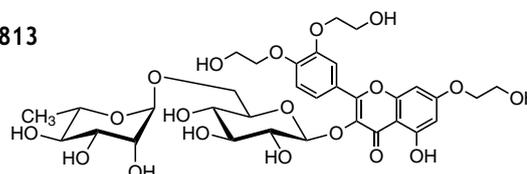
>80.0%(HPLC) $C_{42}H_{59}Na_3O_{16} \cdot xH_2O = 888.89(Anh)$ [71277-78-6] MFCD00070472
 RTECS LZ6500500



T3541 Troxerutin

5g 25g

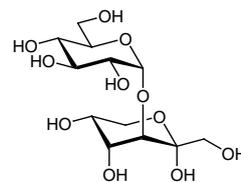
>90.0%(HPLC) $C_{33}H_{42}O_{19} = 742.68$ [7085-55-4] MFCD00893813
 mp 186°C
 MI14-9789 RTECS LK8331500



T0542 D-(+)-Turanose

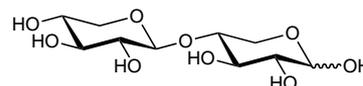
>98.0%(HPLC) $C_{12}H_{22}O_{11}$ = 342.30 [547-25-1] MFCD00006606
Beil. 17(3/4)3092 MI14-9821

1g 5g

**X0067 Xylobiose**

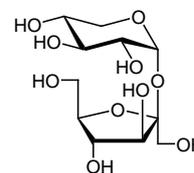
>98.0%(HPLC) $C_{10}H_{18}O_9$ = 282.25 [6860-47-5] MFCD00135984

100mg 1g

**X0065 Xylosucrose**

>98.0%(HPLC) $C_{11}H_{20}O_{10}$ = 312.27 [512-66-3]
mp 114°C
Beil. 17(4)3786

100mg 1g



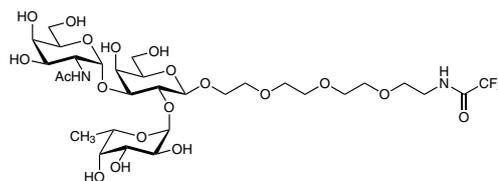
Trisaccharide-①

A2631 A Antigen PEG-trifluoroacetamide

Price on request

$C_{30}H_{51}F_3N_2O_{19} = 800.73$

NMR P.357



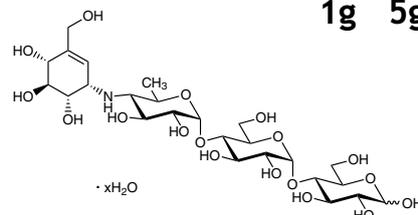
A2485 Acarbose Hydrate

1g 5g

>98.0%(HPLC)(N) $C_{25}H_{43}NO_{18} \cdot xH_2O = 645.61(\text{Anh})$ [56180-94-0]

MFC000869592

MI14-18 RTECS LZ7153000

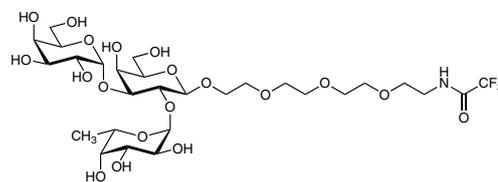


B4172 B Antigen PEG-trifluoroacetamide

Price on request

$C_{28}H_{48}F_3NO_{19} = 759.68$

NMR P.358



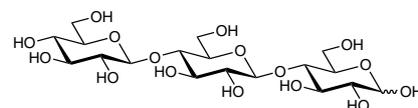
C2795 Cellotriose

20mg

>95.0%(HPLC) $C_{18}H_{32}O_{16} = 504.44$ [33404-34-1] MFC00069842

mp 209°C

NMR P.359

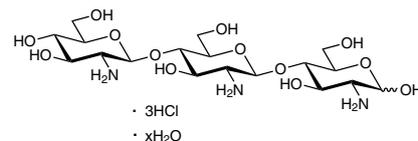


C2642 Chitotriose Trihydrochloride Hydrate

25mg

>93.0%(HPLC) $C_{18}H_{35}N_3O_{13} \cdot 3HCl \cdot xH_2O = 610.86(\text{Anh})$ [117436-78-9]

mp 255°C



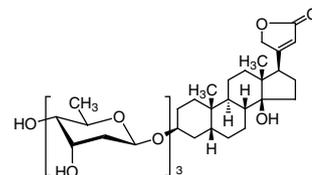
D0542 Digitoxin

100mg

>97.0%(HPLC) $C_{41}H_{64}O_{13} = 764.95$ [71-63-6] MFC00003686

mp 257°C

Beil. 18(3/4)1478 MI14-3163 RTECS IH2275000

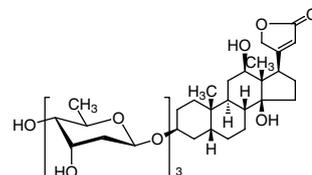


D1828 Digoxin

100mg 1g

>96.0%(HPLC) $C_{41}H_{64}O_{14} = 780.95$ [20830-75-5] MFC00003674

Beil. 18(3/4)2453 MI14-3167 RTECS IH6125000

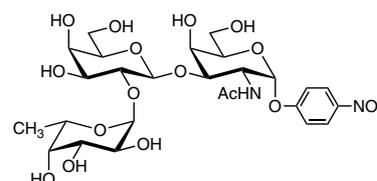


F0895 Fuc α (1-2)Gal β (1-3)GalNAc- α -pNP (=H type 3 α -pNP Glycoside)

$C_{26}H_{38}N_2O_{17}$ = 650.59 [1105508-81-3]

NMR P.360

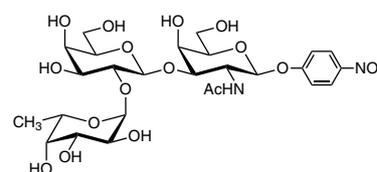
Price on request



F0896 Fuc α (1-2)Gal β (1-3)GalNAc- β -pNP (=H type 3 β -pNP Glycoside)

$C_{26}H_{38}N_2O_{17}$ = 650.59

Price on request

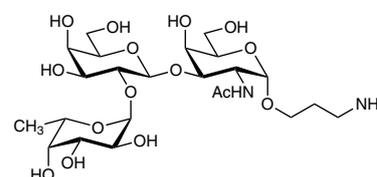


New **F1189 Fuc α (1-2)Gal β (1-3)GalNAc- α -propylamine**

$C_{23}H_{42}N_2O_{15}$ = 586.59 [1016164-81-0]

NMR P.361

Price on request

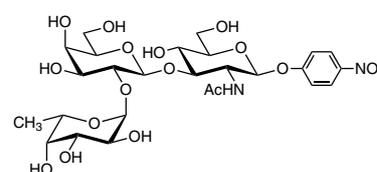


F0894 Fuc α (1-2)Gal β (1-3)GlcNAc- β -pNP (=H type 1 β -pNP Glycoside)

$C_{26}H_{38}N_2O_{17}$ = 650.59 [93496-53-8] MFCD07369574

NMR P.362

Price on request

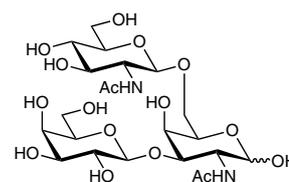


New **G0529 Gal β (1-3)[GlcNAc β (1-6)]GalNAc**

$C_{22}H_{38}N_2O_{16}$ = 586.54 [73499-58-8]

NMR P.363

Price on request

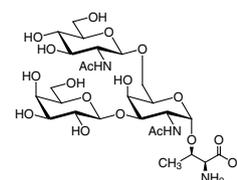


G0343 Gal β (1-3)[GlcNAc β (1-6)]GalNAc- α -Thr

$C_{26}H_{45}N_3O_{18}$ = 687.65 [186600-27-1]

NMR P.364

Price on request

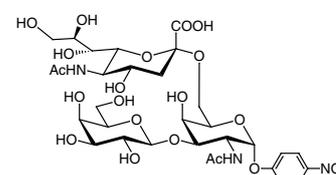


G0377 Gal β (1-3)[Neu5Ac α (2-6)]GalNAc- α -pNP

>95.0%(HPLC) $C_{31}H_{45}N_3O_{21}$ = 795.70 [1316822-90-8]

NMR P.365

2mg



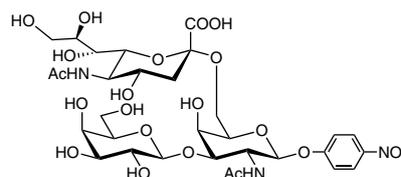
Trisaccharide-③

G0345 Gal β (1-3)[Neu5Ac α (2-6)]GalNAc- β -pNP

5mg

$C_{31}H_{45}N_3O_{21} = 795.70$

NMR P.366

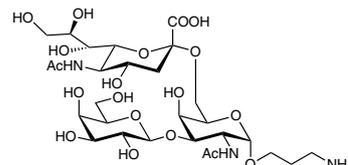


New

G0440 Gal β (1-3)[Neu5Ac α (2-6)]GalNAc- α -propylamine

Price on request

$C_{28}H_{49}N_3O_{19} = 731.70$ [864967-77-1]

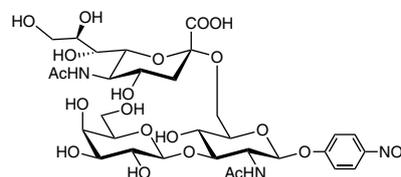


G0347 Gal β (1-3)[Neu5Ac α (2-6)]GlcNAc- β -pNP

2mg

>92.0%(HPLC) $C_{31}H_{45}N_3O_{21} = 795.70$ [754954-71-7]

NMR P.367

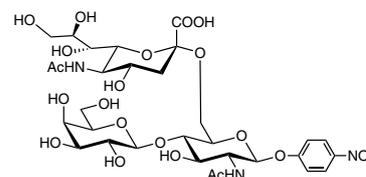


G0353 Gal β (1-4)[Neu5Ac α (2-6)]GlcNAc- β -pNP

2mg

>90.0%(HPLC) $C_{31}H_{45}N_3O_{21} = 795.70$

NMR P.368

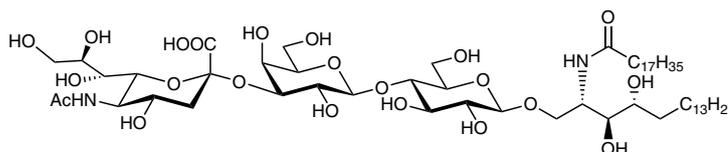


G0422 Ganglioside GM₃ (phyto-type)

Price on request

$C_{59}H_{110}N_2O_{22} = 1199.52$ [1046791-63-2]

NMR P.369



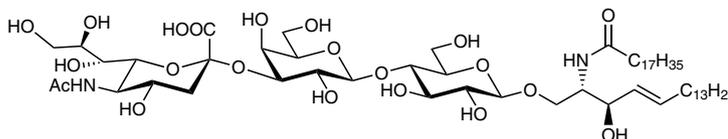
New

G0489 Ganglioside GM₃

Price on request

$C_{59}H_{108}N_2O_{21} = 1181.51$ [124579-05-1]

NMR P.370

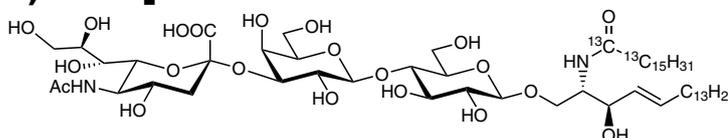


G0419 Ganglioside GM₃ [d18:1, (Carbon-13)C16:0]

Price on request

$^{13}C_{16}C_{41}H_{104}N_2O_{21} = 1169.33$

NMR P.371



多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用は避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

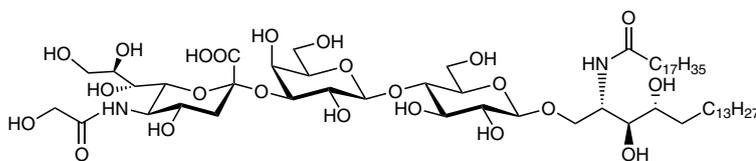
New

G0510 Ganglioside GM₃(Neu5Gc) (phyto-type)

Price on request

C₅₉H₁₁₀N₂O₂₃ = 1215.52

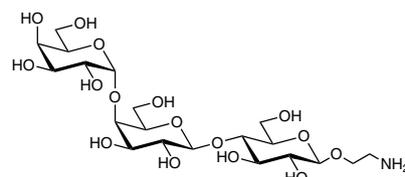
NMR P.372



G0402 Gb₃-β-ethylamine

Price on request

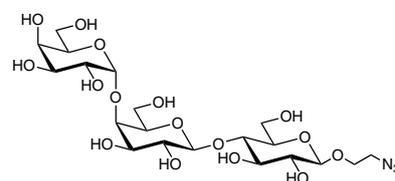
C₂₀H₃₇NO₁₆ = 547.51 [261155-98-0]



G0403 Gb₃-β-ethylazide

Price on request

C₂₀H₃₅N₃O₁₆ = 573.51

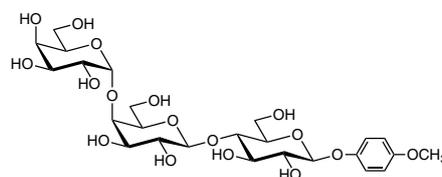


M1767 Gb₃-β-MP

100mg

>95.0%(HPLC) C₂₅H₃₈O₁₇ = 610.56 [898826-64-7]

NMR P.373



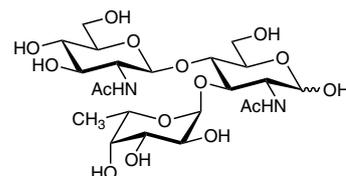
New

G0465 GlcNAc β (1-4)[Fuc α (1-3)]GlcNAc

Price on request

C₂₂H₃₈N₂O₁₅ = 570.55 [77735-22-9]

NMR P.374

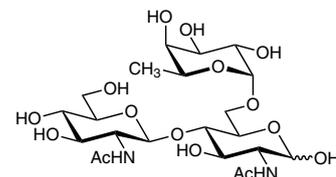


G0423 GlcNAc β (1-4)[Fuc α (1-6)]GlcNAc

Price on request

>98.0%(HPLC) C₂₂H₃₈N₂O₁₅ = 570.55 [108964-40-5]

NMR P.375

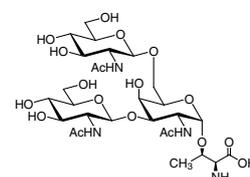


G0342 GlcNAc β (1-3)[GlcNAc β (1-6)]GalNAc-α-Thr

2mg

>94.0%(HPLC) C₂₈H₄₈N₄O₁₈ = 728.70 [1304646-03-4]

NMR P.376



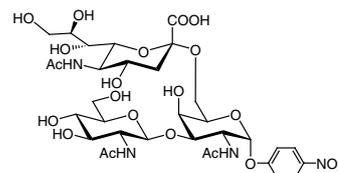
Trisaccharide-⑤

G0378 GlcNAc β (1-3)[Neu5Ac α (2-6)]GalNAc- α -pNP

2mg

>97.0%(HPLC) $C_{33}H_{48}N_4O_{21} = 836.75$

NMR P.377

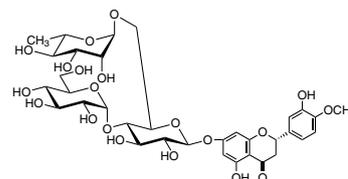


New

G0398 α -Glucosyl Hesperidin

5mg

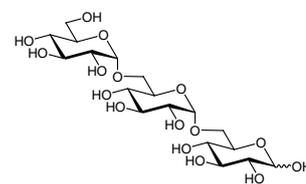
>97.0%(HPLC) $C_{34}H_{44}O_{20} = 772.71$ [161713-86-6]



I0329 Isomaltotriose

100mg 1g

>97.0%(HPLC) $C_{18}H_{32}O_{16} = 504.44$ [3371-50-4] MFCD00070623

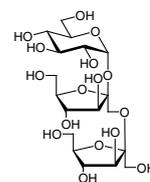


K0032 1-Kestose

1g 5g

>99.0%(HPLC) $C_{18}H_{32}O_{16} = 504.44$ [470-69-9] MFCD00142647

Beil. 17(5)8,416



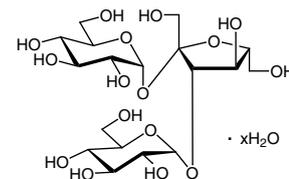
M0049 D-(+)-Melezitose Hydrate

5g 25g

>99.0%(GC) $C_{18}H_{32}O_{16} \cdot xH_2O = 504.44(Anh)$ [207511-10-2] MFCD00149448

mp 153°C

Beil. 31,466 MI14-5819

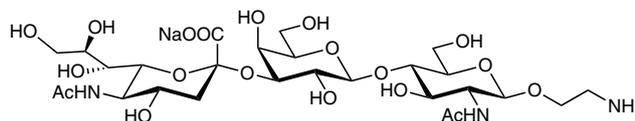


N0949 Neu5Ac α (2-3)Gal β (1-4)GlcNAc- β -ethylamine

Price on request

$C_{27}H_{46}N_3NaO_{19} = 739.66$

NMR P.378

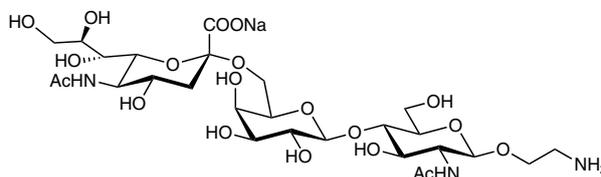


N0950 Neu5Ac α (2-6)Gal β (1-4)GlcNAc- β -ethylamine

5mg

>98.0%(HPLC) $C_{27}H_{46}N_3NaO_{19} = 739.66$

NMR P.379

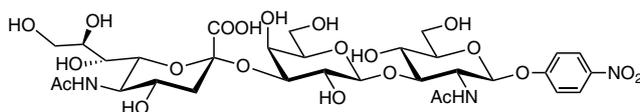


**N0853 Neu5Ac α (2-3)Gal β (1-3)GlcNAc-
 β -pNP**

Price on request

$C_{31}H_{45}N_3O_{21} = 795.70$ [1363424-95-6]

NMR P.380

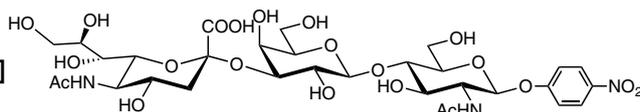


**N0854 Neu5Ac α (2-3)Gal β (1-4)GlcNAc-
 β -pNP**

2mg

>95.0%(HPLC) $C_{31}H_{45}N_3O_{21} = 795.70$ [501427-92-5]

NMR P.381

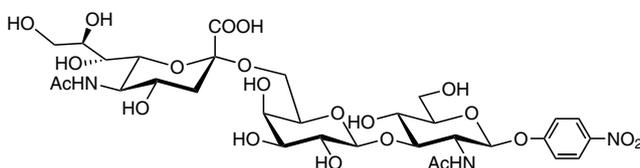


**N0855 Neu5Ac α (2-6)Gal β (1-3)GlcNAc-
 β -pNP**

1mg

>97.0%(HPLC) $C_{31}H_{45}N_3O_{21} = 795.70$

NMR P.382

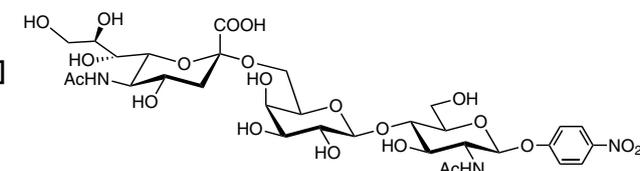


**N0856 Neu5Ac α (2-6)Gal β (1-4)GlcNAc-
 β -pNP**

2mg

>97.0%(HPLC) $C_{31}H_{45}N_3O_{21} = 795.70$ [501427-93-6]

NMR P.383

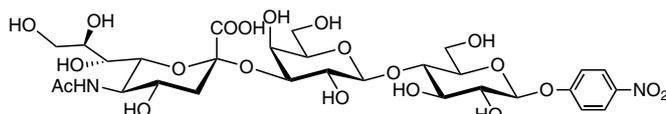


N0860 Neu5Ac α (2-3)Gal β (1-4)Glc- β -pNP

5mg

>97.0%(HPLC) $C_{29}H_{42}N_2O_{21} = 754.65$

NMR P.384



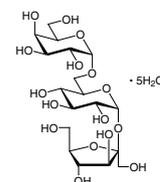
R0002 d-(+)-Raffinose Pentahydrate

25g

>98.0%(HPLC) $C_{18}H_{32}O_{16} \cdot 5H_2O = 504.44(Anh)$ [17629-30-0] MFCD00006630

mp 80°C

Beil. 31,462 MI14-8096



New

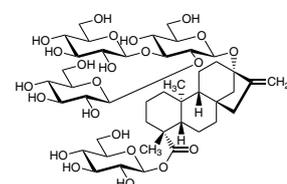
R0095 Rebaudioside A

5g 25g

>98.0%(HPLC) $C_{44}H_{70}O_{23} = 967.02$ [58543-16-1] MFCD02183463

mp 235°C

RTECS NZ8174800

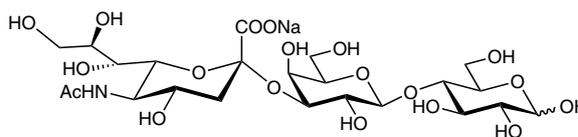


Trisaccharide-⑦

New **S0885 3'-Sialyllactose Sodium Salt**

20mg 100mg

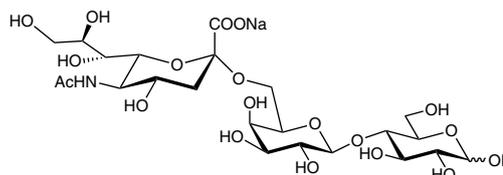
>98.0%(HPLC) $C_{23}H_{38}NNaO_{19} = 655.53$ [128596-80-5]



New **S0886 6'-Sialyllactose Sodium Salt**

20mg 100mg

>98.0%(HPLC) $C_{23}H_{38}NNaO_{19} = 655.53$ [157574-76-0]

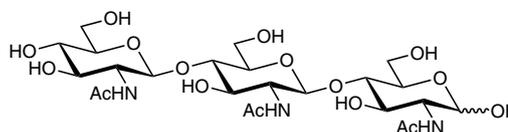


T2912 N,N',N''-Triacetylchitotriose

20mg

>98.0%(HPLC) $C_{24}H_{41}N_3O_{16} = 627.60$ [38864-21-0] MFCD00136047

NMR P.385

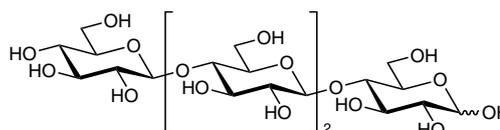


C2796 Cellotetraose

10mg

>94.0%(HPLC) $C_{24}H_{42}O_{21} = 666.58$ [38819-01-1] MFCD00079079

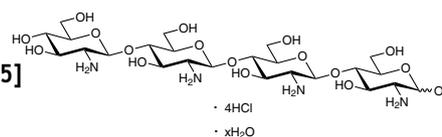
NMR P.386



C2641 Chitotetraose Tetrahydrochloride Hydrate

25mg

>95.0%(HPLC) $C_{24}H_{46}N_4O_{17} \cdot 4HCl \cdot xH_2O = 808.48(Anh)$ [117399-50-5]



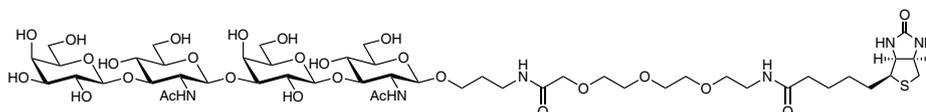
New

G0511 Gal β (1-3)GlcNAc β (1-3)Gal β (1-3)GlcNAc- β -PEG₃-biotin

Price on request

$C_{49}H_{84}N_6O_{27}S = 1221.29$

NMR P.387



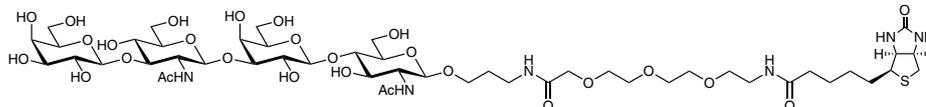
New

G0513 Gal β (1-3)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -PEG₃-biotin

Price on request

$C_{49}H_{84}N_6O_{27}S = 1221.29$

NMR P.388



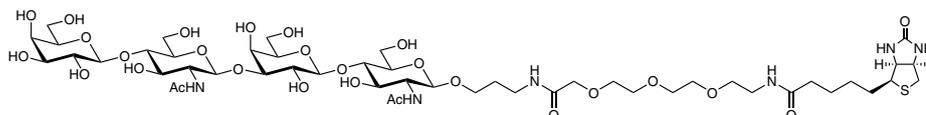
New

G0515 Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -PEG₃-biotin

Price on request

$C_{49}H_{84}N_6O_{27}S = 1221.29$

NMR P.389



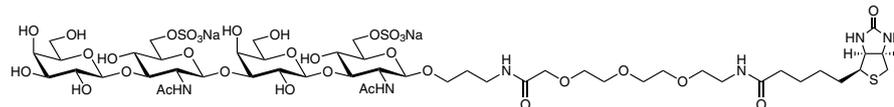
New

G0512 Gal β (1-3)GlcNAc[6S] β (1-3)Gal β (1-3)GlcNAc[6S]- β -PEG₃-biotin

Price on request

$C_{49}H_{82}N_6Na_2O_{33}S_3 = 1425.36$

NMR P.390



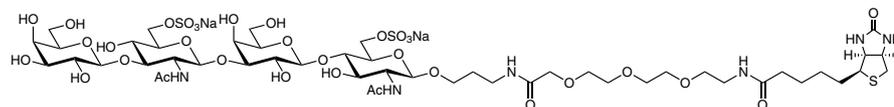
New

G0514 Gal β (1-3)GlcNAc[6S] β (1-3)Gal β (1-4)GlcNAc[6S]- β -PEG₃-biotin

Price on request

$C_{49}H_{82}N_6Na_2O_{33}S_3 = 1425.36$

NMR P.391



The chemical, physical and toxicological properties of the new chemicals have not been thoroughly investigated. Please handle with care.

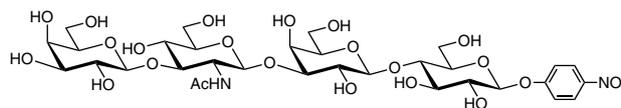
Tetrasaccharide-②

G0348 Gal β (1-3)GlcNAc β (1-3)Gal β (1-4)Glc- β -pNP

5mg

>97.0%(HPLC) $C_{32}H_{48}N_2O_{23} = 828.73$ [148705-09-3]

NMR P.392

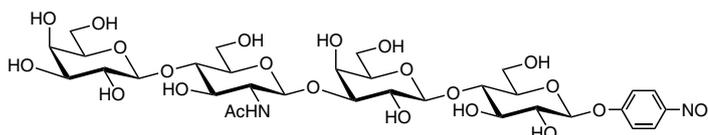


G0351 Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)Glc- β -pNP

Price on request

$C_{32}H_{48}N_2O_{23} = 828.73$ [197526-33-3]

NMR P.393

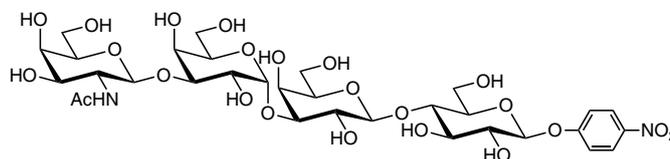


G0380 GalNAc β (1-3)Gal α (1-3)Gal β (1-4)Glc- β -pNP

Price on request

$C_{32}H_{48}N_2O_{23} = 828.73$

NMR P.394

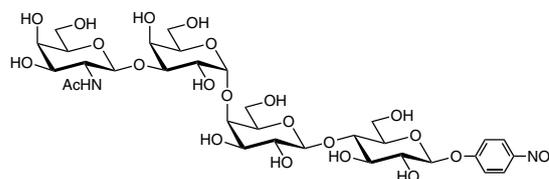


G0354 GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc- β -pNP

5mg

>88.0%(HPLC) $C_{32}H_{48}N_2O_{23} = 828.73$ [1134635-03-2]

NMR P.395

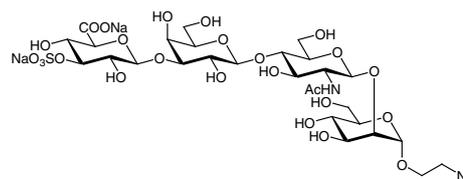


G0372 GlcA[3S] β (1-3)Gal β (1-4)GlcNAc β (1-2)Man- α -ethylazide

Price on request

$C_{28}H_{44}N_4Na_2O_{25}S = 914.70$

NMR P.396



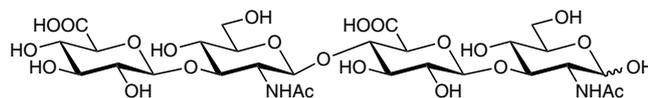
H1284 Hyaluronate Tetrasaccharide

1mg 5mg

$C_{28}H_{44}N_2O_{23} = 776.65$ [57282-61-8]

Beil. 18(4)7588

NMR P.397

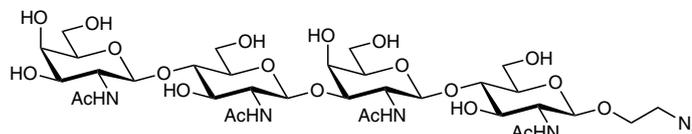


L0237 LacDiNAc Dimer Ethylazide

Price on request

$C_{34}H_{57}N_7O_{21} = 899.86$

NMR P.398

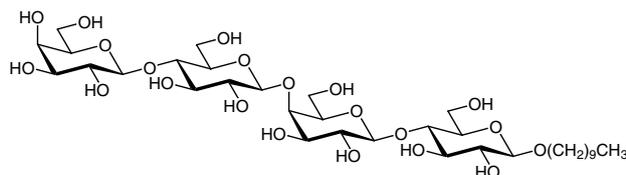


多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用はお避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

L0229 Lac β (1-4)Lac-β-C₁₀

10mg 100mg

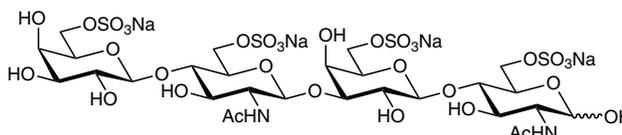
>98.0%(HPLC) C₃₄H₆₂O₂₁ = 806.85



New L0286 L4-L4

Price on request

C₂₈H₄₄N₂Na₄O₃₃S₄ = 1156.84 [321897-67-0]

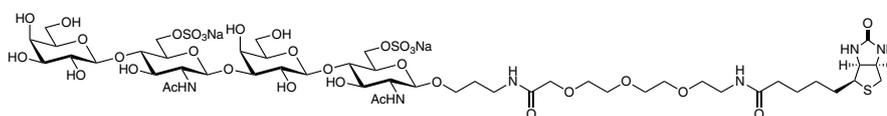


New G0516 L2-L2-β-PEG₃-biotin

Price on request

C₄₉H₈₂N₆Na₂O₃₃S₃ = 1425.36

NMR P.399

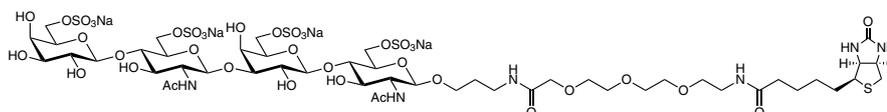


New G0517 L4-L4-β-PEG₃-biotin

Price on request

C₄₉H₈₀N₆Na₄O₃₉S₅ = 1629.44

NMR P.400

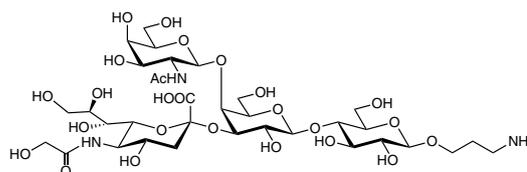


New N0971 Neu5Gc α (2-3)[GalNAc β (1-4)]Gal β (1-4)Glc-β-propylamine

Price on request

C₃₄H₅₉N₃O₂₅ = 909.84

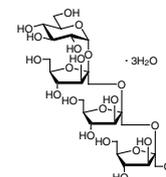
NMR P.401



N0571 Nistose Trihydrate

1g

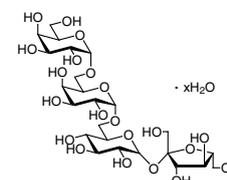
>99.0%(HPLC) C₂₄H₄₂O₂₁ · 3H₂O = 666.58(Anh) [13133-07-8] MFCD00191672
Beil. 17(5)8,417



S0397 Stachyose Hydrate

1g 5g

>98.0%(HPLC) C₂₄H₄₂O₂₁ · xH₂O = 666.58(Anh) [54261-98-2] MFCD00071593



Tetrasaccharide-④

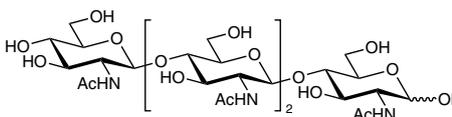
T2910 N,N',N'',N'''-Tetraacetylchitotetraose

10mg

>98.0%(HPLC) C₃₂H₅₄N₄O₂₁ = 830.79 [2706-65-2] MFCD00136030

mp 300°C

NMR P.402

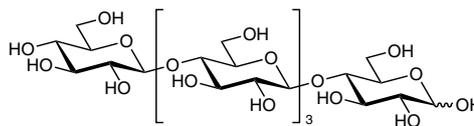


C2644 Cellopentaose

25mg

>95.0%(HPLC) $C_{30}H_{52}O_{26} = 828.72$ [2240-27-9] MFCD00151164

NMR P.403



New

C2762 Chitin Oligosaccharides (contains N-Acetylglucosamine)

25g 100g

New

C2849 Chitosan Oligosaccharides

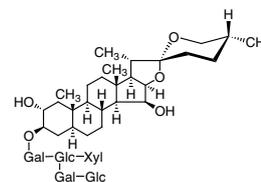
25g 100g

D0540 Digitonin

100mg

$C_{56}H_{92}O_{29} = 1229.32$ [11024-24-1] MFCD00077729

Beil. 19(3/4)1243 MI14-3161 RTECS IH2050050

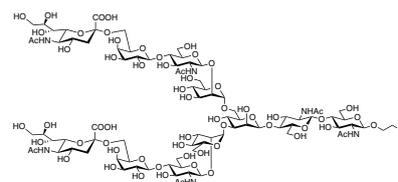


D4217 Disialylnonasaccharide-β-ethylazide

Price on request

$C_{86}H_{141}N_9O_{62} = 2293.08$ [1621001-68-0]

NMR P.404

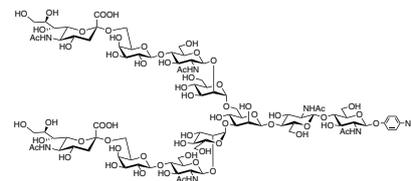


N0913 Disialylnonasaccharide-β-pNP

Price on request

$C_{90}H_{141}N_7O_{64} = 2345.10$ [1408055-26-4]

NMR P.405

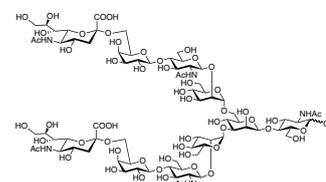


D4065 Disialyloctasaccharide

Price on request

$C_{76}H_{125}N_5O_{57} = 2020.81$ [58902-60-6]

NMR P.406



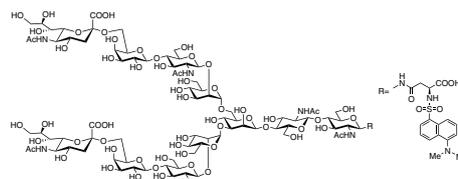
The chemical, physical and toxicological properties of the new chemicals have not been thoroughly investigated.
Please handle with care.

Oligosaccharide-②

D3690 DNS-SGN

1mg

$C_{100}H_{155}N_9O_{66}S = 2571.40$

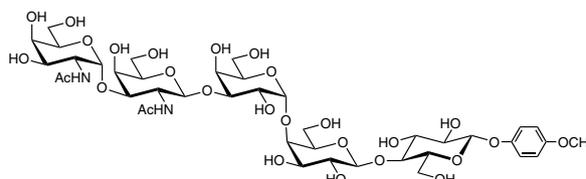


F0584 Forssman Pentaose MP Glycoside

Price on request

$C_{41}H_{64}N_2O_{27} = 1016.95$

NMR P.407



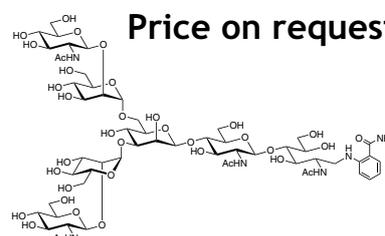
New

G0490 GO 2AB

Price on request

$C_{57}H_{92}N_6O_{36} = 1437.37$ [959159-21-8]

NMR P.408



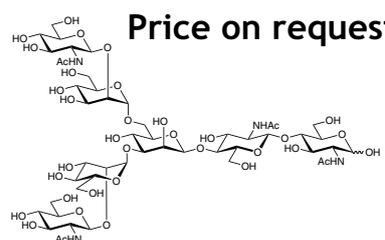
New

G0484 GO Glycan

Price on request

$C_{50}H_{84}N_4O_{36} = 1317.21$ [84808-02-6] MFCD01310890

NMR P.409



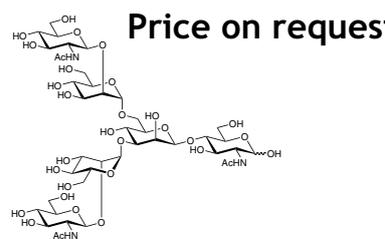
New

G0530 GO Glycan (GN₁ type)

Price on request

$C_{42}H_{71}N_3O_{31} = 1114.02$ [61687-27-2]

NMR P.410



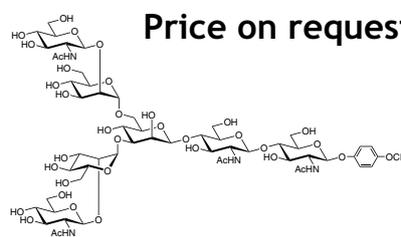
New

G0470 GO MP Glycoside

Price on request

$C_{57}H_{90}N_4O_{37} = 1423.34$

NMR P.411



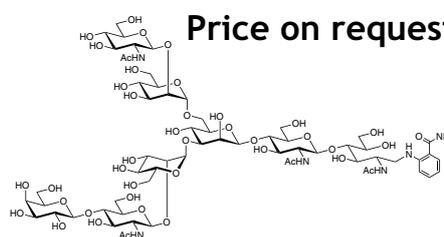
New

G0491 3-G1 2AB

Price on request

$C_{63}H_{102}N_6O_{41} = 1599.51$

NMR P.412

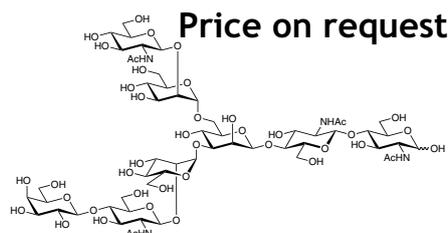


多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用はお避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

New **G0485 3-G1 Glycan**

$C_{56}H_{94}N_4O_{41} = 1479.36$ [103584-68-5]

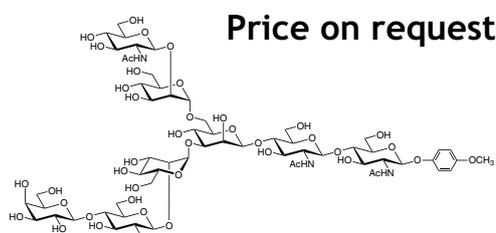
NMR P.413



New **G0471 3-G1 MP Glycoside**

$C_{63}H_{100}N_4O_{42} = 1585.48$

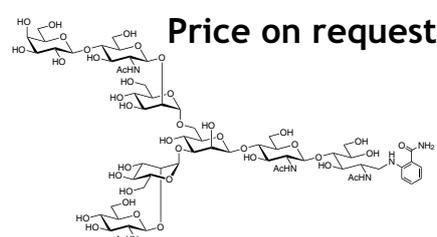
NMR P.414



New **G0492 6-G1 2AB**

$C_{63}H_{102}N_6O_{41} = 1599.51$

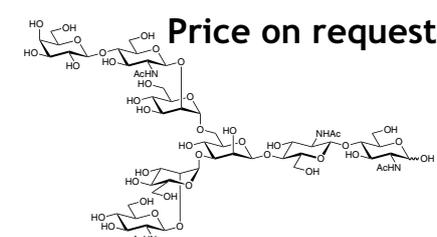
NMR P.415



New **G0486 6-G1 Glycan**

$C_{56}H_{94}N_4O_{41} = 1479.36$ [109050-95-5]

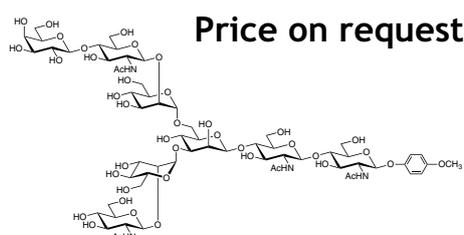
NMR P.416



New **G0472 6-G1 MP Glycoside**

$C_{63}H_{100}N_4O_{42} = 1585.48$

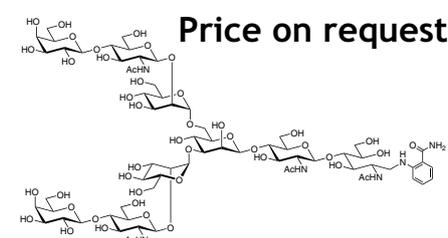
NMR P.417



New **G0493 G2 2AB**

$C_{69}H_{112}N_6O_{46} = 1761.65$ [263902-58-5]

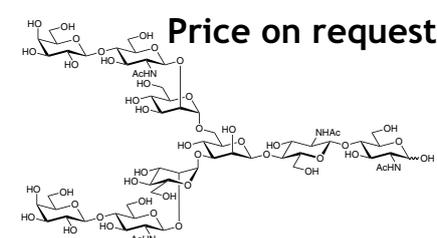
NMR P.418



New **G0487 G2 Glycan**

$C_{62}H_{104}N_4O_{46} = 1641.50$ [71496-53-2] MFCD01310893

NMR P.419

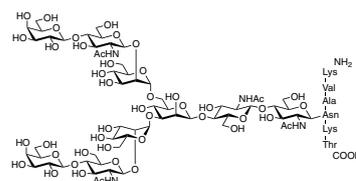


New **G0466 G2-peptide**

$C_{90}H_{155}N_{13}O_{54} = 2283.27$ [361443-81-4]

NMR P.420

Price on request

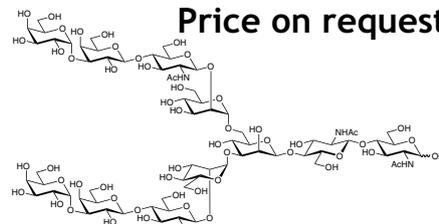


New **G0488 Gal α (1-3) N-Glycan**

$C_{74}H_{124}N_4O_{56} = 1965.78$ [115973-45-0]

NMR P.421

Price on request

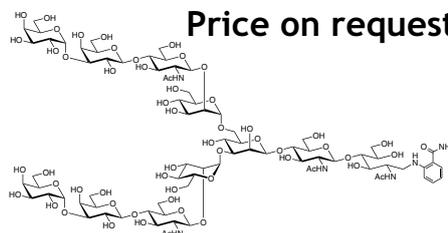


New **G0494 Gal α (1-3) N-Glycan 2AB**

$C_{81}H_{132}N_6O_{56} = 2085.93$

NMR P.422

Price on request

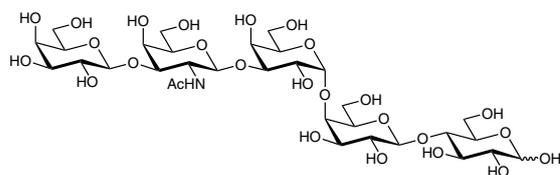


New **G0434 Gal β (1-3)GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc**

$C_{32}H_{55}NO_{26} = 869.77$ [145882-74-2]

NMR P.423

Price on request

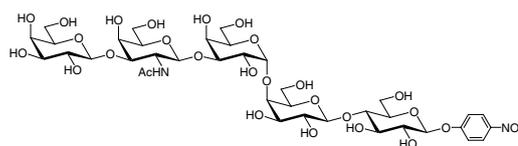


G0355 Gal β (1-3)GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc- β -pNP

>95.0%(HPLC) $C_{38}H_{58}N_2O_{28} = 990.87$

NMR P.424

5mg



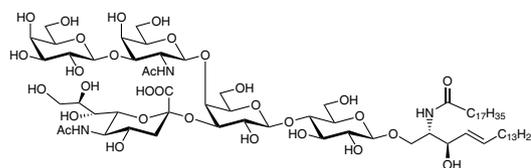
New **G0483 Ganglioside GM₁**

$C_{73}H_{131}N_3O_{31} = 1546.84$ [37758-47-7] MFCD00466936

MI14-4364 RTECS FK1200000

NMR P.425

Price on request

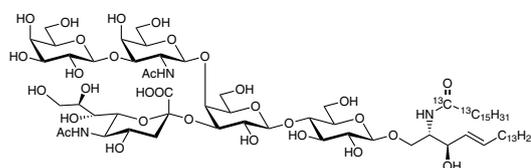


G0421 Ganglioside GM₁ [d18:1, (Carbon-13)C16:0]

$^{13}C_{16}C_{55}H_{127}N_3O_{31} = 1534.66$

NMR P.426

Price on request



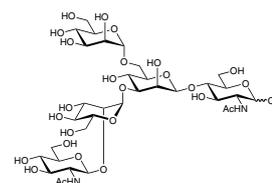
New

**G0531 GlcNAc β (1-2)Man α (1-3)
[Man α (1-6)]Man β (1-4)GlcNAc-OH**

Price on request

C₃₄H₅₈N₂O₂₆ = 910.83 [76786-13-5]

NMR P.427

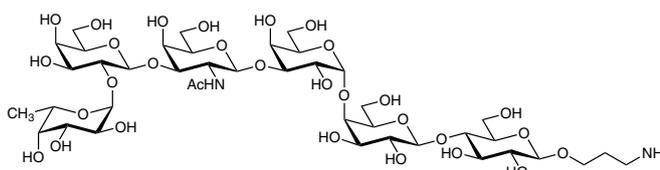


New

G0447 Globo-H-PrNH₂

Price on request

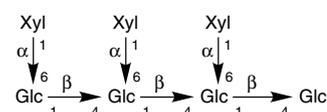
C₄₁H₇₂N₂O₃₀ = 1073.01 [260363-35-7]



H1044 Heptasaccharide Glc₄Xyl₃

100mg

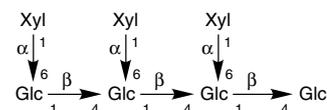
>93.0%(HPLC) C₃₉H₆₆O₃₃ = 1062.92 [121591-98-8] MFCD04040861



H1041 Heptasaccharide Glc₄Xyl₃

100mg

>95.0%(HPLC) C₃₉H₆₆O₃₃ = 1062.92 [121591-98-8] MFCD04040861



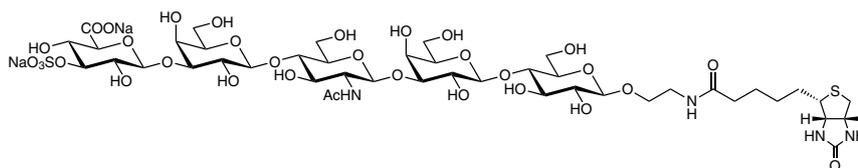
New

H1487 HNK-1 Biotin

Price on request

C₄₄H₇₀N₄Na₂O₃₂S₂ = 1277.14

NMR P.428

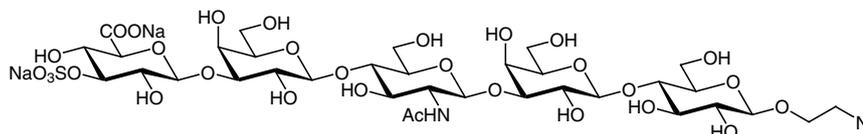


H1333 HNK-1 Ethylazide

Price on request

C₃₄H₅₄N₄Na₂O₃₀S = 1076.84

NMR P.429

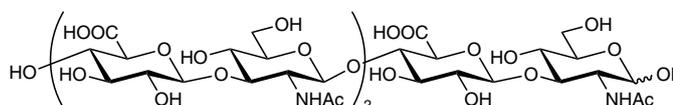


H1285 Hyaluronate Hexasaccharide

1mg 5mg

C₄₂H₆₅N₃O₃₄ = 1155.97 [73603-40-4]

NMR P.430



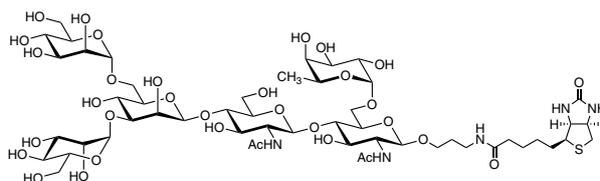
Oligosaccharide-⑥

New **M2986 M3(Fuc₆)-biotin**

C₅₃H₈₉N₅O₃₂S = 1340.36 [1995898-20-8]

NMR P.431

Price on request

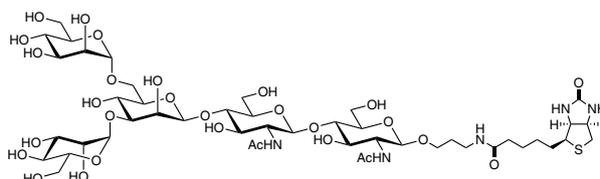


New **M2985 M3-biotin**

C₄₇H₇₉N₅O₂₈S = 1194.22 [1995898-22-0]

NMR P.432

Price on request

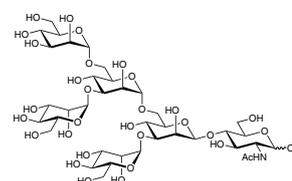


New **M3086 M5 Glycan (GN₁ type)**

C₃₈H₆₅NO₃₁ = 1031.91 [74385-50-5] MFCD01076417

NMR P.433

Price on request

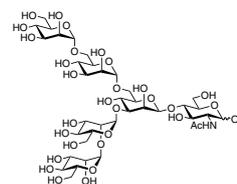


**M2439 Man α (1-2)Man α (1-3)
[Man α (1-6)Man α (1-6)]
Man β (1-4)GlcNAc**

C₃₈H₆₅NO₃₁ = 1031.91

NMR P.434

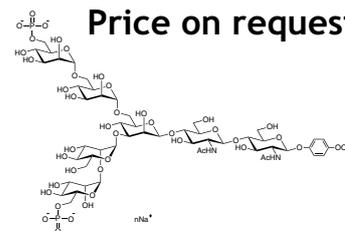
Price on request



New **M3087 Man[6P] α (1-2)Man α (1-3)[Man[6P] α (1-6)Man α (1-6)]Man β (1-4)GlcNAc β (1-4)GlcNAc- β -MP**

NMR P.435

Price on request

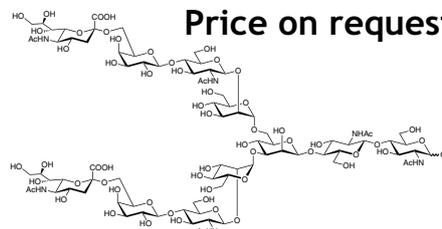


New **N1065 Neu5Ac α (2-6) N-Glycan**

C₈₄H₁₃₈N₆O₆₂ = 2224.01 [1125602-44-9]

NMR P.436

Price on request

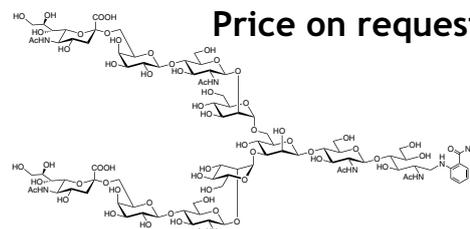


New **N1073 Neu5Ac α (2-6) N-Glycan 2AB**

C₉₁H₁₄₆N₈O₆₂ = 2344.16 [1107646-22-9]

NMR P.437

Price on request



多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用はお避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

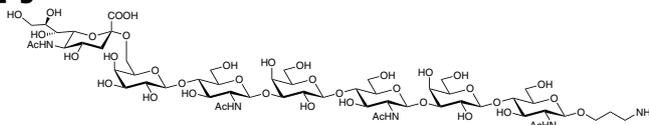
New

N1118 Neu5Ac α (2-6)Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -propylamine

Price on request

$C_{56}H_{95}N_5O_{39} = 1462.37$ [1342819-25-3]

NMR P.438



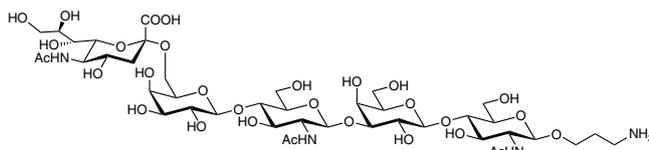
New

N1117 Neu5Ac α (2-6)Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -propylamine

Price on request

$C_{42}H_{72}N_4O_{29} = 1097.04$ [1015760-62-9]

NMR P.439



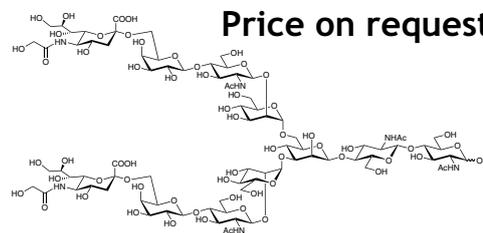
New

N1064 Neu5Gc α (2-6) N-Glycan

Price on request

$C_{84}H_{138}N_6O_{64} = 2256.01$ [125139-41-5]

NMR P.440



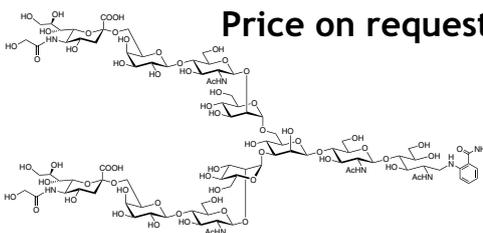
New

N1075 Neu5Gc α (2-6) N-Glycan 2AB

Price on request

$C_{91}H_{146}N_8O_{64} = 2376.16$

NMR P.441



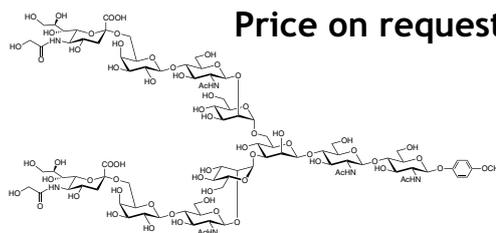
New

N1046 Neu5Gc α (2-6) N-Glycan MP Glycoside

Price on request

$C_{91}H_{144}N_6O_{65} = 2362.13$

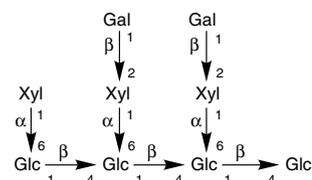
NMR P.442



N0693 Nonasaccharide Glc₄Xyl₃Gal₂

100mg

>75.0%(HPLC) $C_{51}H_{86}O_{43} = 1387.21$ [129865-06-1] MFCD04040971

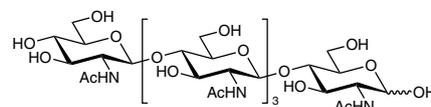


P2027 N,N',N'',N''',N''''-Pentaacetyl-chitopentaose

10mg

>97.0%(HPLC) $C_{40}H_{67}N_5O_{26} = 1033.99$ [36467-68-2] MFCD00210240
mp 295°C

NMR P.443

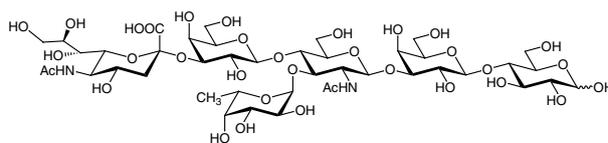


S0849 Sialyl Lewis X-Lactose

1mg 5mg

>97.0%(HPLC) $C_{43}H_{72}N_2O_{33} = 1145.03$ [127923-85-7]

NMR P.444

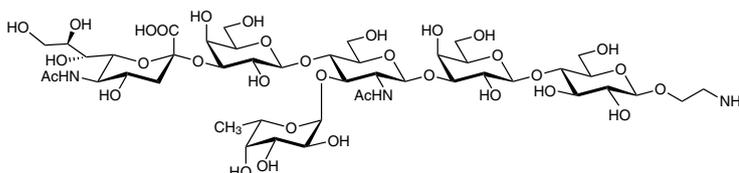


New

S0923 Sialyl Lewis X-Lactose Ethylamine

Price on request

$C_{45}H_{77}N_3O_{33} = 1188.10$

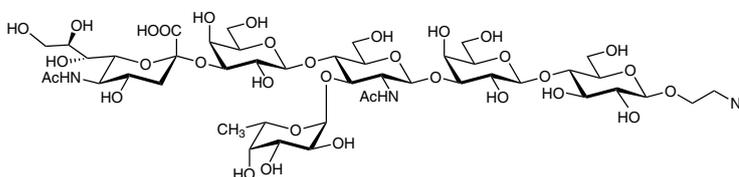


New

S0922 Sialyl Lewis X-Lactose Ethylazide

Price on request

$C_{45}H_{75}N_5O_{33} = 1214.10$

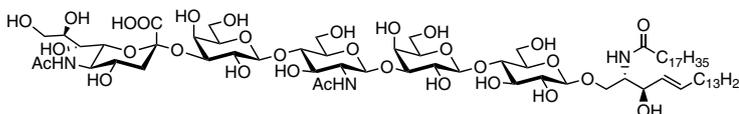


S0910 Sialyl Neolactotetraosylceramide (=Sialyl nLc₄Cer)

Price on request

$C_{73}H_{131}N_3O_{31} = 1546.84$ [128529-29-3]

NMR P.445

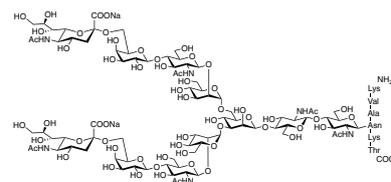


S0523 Sialylglycopeptide

10mg

>95.0%(HPLC) $C_{112}H_{187}N_{15}Na_2O_{70} = 2909.74$ [189035-43-6]

NMR P.446



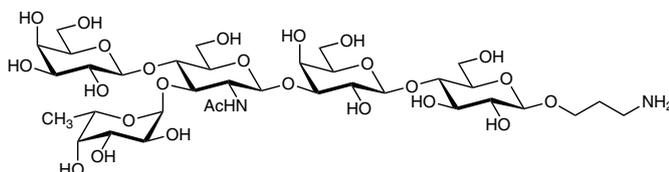
New

S0946 SSEA-1-PrNH₂

Price on request

$C_{35}H_{62}N_2O_{25} = 910.87$ [959862-91-0]

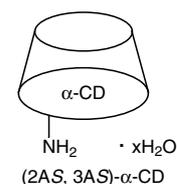
NMR P.447



A2122 3A-Amino-3A-deoxy-(2AS,3AS)- α -cyclodextrin Hydrate

>90.0%(HPLC) $C_{36}H_{61}NO_{29} \cdot xH_2O = 971.86(\text{Anh})$ [121916-94-7]

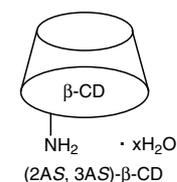
200mg 1g



A1916 3A-Amino-3A-deoxy-(2AS,3AS)- β -cyclodextrin Hydrate

>97.0%(T) $C_{42}H_{71}NO_{34} \cdot xH_2O = 1134.00(\text{Anh})$ [117194-77-1]

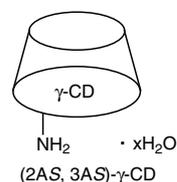
200mg 1g



A2123 3A-Amino-3A-deoxy-(2AS,3AS)- γ -cyclodextrin Hydrate

>95.0%(HPLC) $C_{48}H_{81}NO_{39} \cdot xH_2O = 1296.14(\text{Anh})$ [189307-64-0]

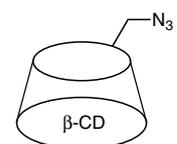
200mg 1g



New **A3090 6A-Azido-6A-deoxy- β -cyclodextrin**

>85.0%(HPLC) $C_{42}H_{69}N_3O_{34} = 1160.00$ [98169-85-8] MFCD05864973

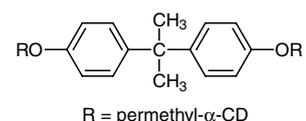
100mg



New **B3026 2,2-Bis[4-(per-O-methyl- α -cyclodextrin-6-yloxy)phenyl]propane**

$C_{121}H_{200}O_{60} = 2614.87$

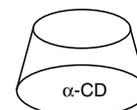
10mg



C0776 α -Cyclodextrin

>98.0%(HPLC) $C_{36}H_{60}O_{30} = 972.85$ [10016-20-3] MFCD00078207
MI14-2718 F&F 9,129 RTECS GU2292000

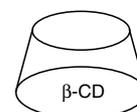
10g 25g 100g



C0777 β -Cyclodextrin

>99.0%(HPLC) $C_{42}H_{70}O_{35} = 1134.99$ [7585-39-9] MFCD00078139
MI14-2718 F&F 9,129 RTECS GU2293000

25g 100g

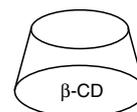


Cyclodextrin-②

C0900 β-Cyclodextrin

25g 100g 500g

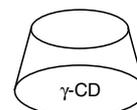
>98.0%(HPLC) C₄₂H₇₀O₃₅ = 1134.99 [7585-39-9] MFCD00078139
MI14-2718 F&F 9,129 RTECS GU2293000



C0869 γ-Cyclodextrin

5g 25g 100g

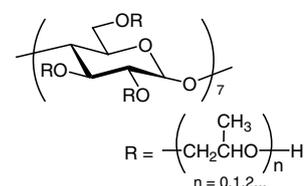
>99.0%(HPLC) C₄₈H₈₀O₄₀ = 1297.13 [17465-86-0] MFCD00009595
MI14-2718 F&F 9,129 RTECS GU2293080



H0979 Hydroxypropyl-β-cyclodextrin

25g 100g

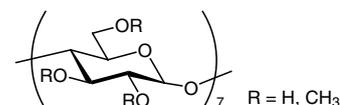
[128446-35-5] MFCD00074978



M1356 Methyl-β-cyclodextrin (mixture of several Methylated)

25g 250g

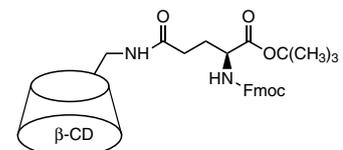
[128446-36-6] MFCD00074980



New M2978 Mono-6-(Fmoc-Gln-OtBu)-β-CD

100mg

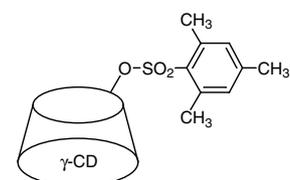
>85.0%(HPLC) C₆₆H₉₆N₂O₃₉ = 1541.47



M1212 Mono-6-O-mesitylenesulfonyl-γ-cyclodextrin

1g

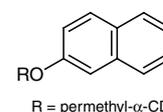
>90.0%(HPLC) C₅₇H₉₀O₄₂S = 1479.37 [174010-62-9] MFCD00671559



New M1876 Mono-6-O-(2-naphthyl)-per-O-methyl-α-cyclodextrin

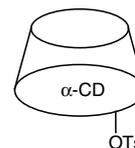
10mg

C₆₃H₁₀₀O₃₀ = 1337.46 [1019999-18-8]



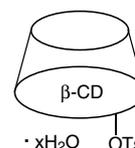
New **M1956 Mono-2-O-(p-toluenesulfonyl)- α -cyclodextrin** 200mg 1g

>98.0%(HPLC) $C_{43}H_{66}O_{32}S = 1127.03$ [93184-10-2]
mp 176°C



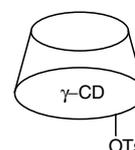
M1741 Mono-2-O-(p-toluenesulfonyl)- β -cyclodextrin Hydrate 200mg 1g

>97.0%(HPLC) $C_{49}H_{76}O_{37}S \cdot xH_2O = 1289.17(\text{Anh})$ [84216-71-7]



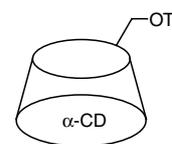
New **M1957 Mono-2-O-(p-toluenesulfonyl)- γ -cyclodextrin** 200mg 1g

>95.0%(HPLC) $C_{55}H_{86}O_{42}S = 1451.31$ [97227-32-2]



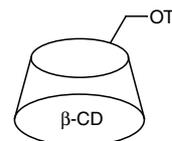
New **M1644 Mono-6-O-(p-toluenesulfonyl)- α -cyclodextrin** 200mg 1g

>85.0%(HPLC) $C_{43}H_{66}O_{32}S = 1127.03$ [32860-56-3]



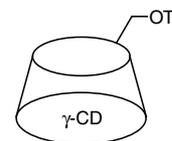
New **M1381 Mono-6-O-(p-toluenesulfonyl)- β -cyclodextrin** 200mg

>85.0%(HPLC) $C_{49}H_{76}O_{37}S = 1289.17$ [67217-55-4]



New **M1645 Mono-6-O-(p-toluenesulfonyl)- γ -cyclodextrin** 200mg

>90.0%(HPLC) $C_{55}H_{86}O_{42}S = 1451.31$ [97227-33-3]



New **T2452 5,10,15,20-Tetrakis[3,5-bis(per-O-methyl- α -cyclodextrin-6-yloxy)phenyl]-21H,23H-porphine** 10mg

$C_{468}H_{766}N_4O_{240} = 10289.06$

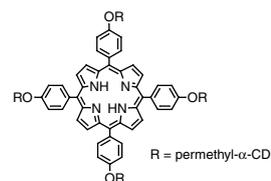


Cyclodextrin-④

New **T2451** 5,10,15,20-Tetrakis[4-(per-O-methyl- α -cyclodextrin-6-yloxy)phenyl]porphyrin

$C_{256}H_{398}N_4O_{120} = 5451.91$

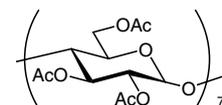
10mg



T1844 Triacetyl- β -cyclodextrin

>97.0%(HPLC) $C_{84}H_{112}O_{56} = 2017.76$ [23739-88-0] MFCD00074981

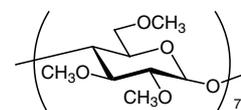
25g



New **T1094** Trimethyl- β -cyclodextrin

>98.0%(HPLC) $C_{63}H_{112}O_{35} = 1429.55$ [55216-11-0] MFCD00010728
mp 159°C

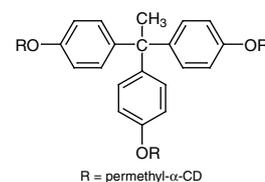
1g



New **T2450** 1,1,1-Tris[4-(per-O-methyl- α -cyclodextrin-6-yloxy)phenyl]ethane

$C_{179}H_{294}O_{90} = 3886.23$

10mg



A0733 Alginic Acid

25g 500g

[9005-32-7] MFCD00081309
MI14-242 RTECS AZ5775000**A0456 Amylopectin Hydrate (Amylose free), from Waxy Corn**

25g 500g

 $(C_6H_{10}O_5)_n \cdot xH_2O$ [9037-22-3] MFCD00130510
MI14-481**A1328 (+)-Arabinogalactan from Larch Wood**

25g 100g

 $[(C_5H_8O_4)(C_6H_{10}O_5)_6]_x$ [9036-66-2] MFCD00062638**A0738 Calcium Alginate**

25g 500g

[9005-35-0] MFCD00143567
MI14-242 RTECS AZ5810000**New C0045 Carboxymethyl Cellulose Sodium Salt**
(n=approx. 500)

25g 500g

 $[C_6H_7O_2(OH)_x(OCH_2COONa)_y]_n$ [9004-32-4] MFCD00081472
MI14-1829 RTECS FJ5950000**New C0603 Carboxymethyl Cellulose Sodium Salt**
(n=approx. 1,050)

25g 500g

 $[C_6H_7O_2(OH)_x(OCH_2COONa)_y]_n$ [9004-32-4] MFCD00081472
MI14-1829 RTECS FJ5950000**New C3250 Carboxymethyldextran Sodium Salt**
(Mw.=ca. 10,000)

1g 5g

[39422-83-8] MFCD00146477

Polysaccharide-②

New

C3251 Carboxymethyldextran Sodium Salt (Mw.=ca. 40,000)

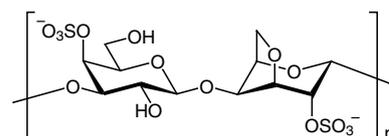
1g 5g

[39422-83-8] MFCD00146477

C1805 ι-Carrageenan

25g 500g

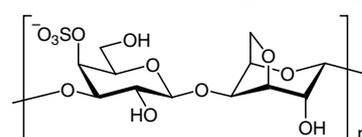
[9062-07-1] MFCD00151512
MI14-1858



C1804 κ-Carrageenan

25g 500g

[11114-20-8] MFCD00151514
MI14-1864 RTECS FI0703000

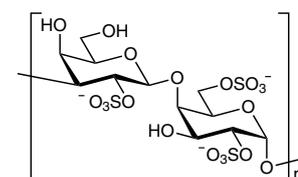


New

C3313 λ-Carrageenan (High-viscosity)

25g 500g

[9064-57-7] MFCD00151513
MI14-1864 RTECS FI0704000

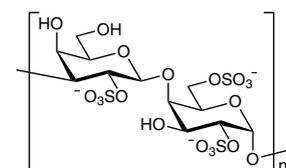


New

C2871 λ-Carrageenan (Low-viscosity)

1g 5g

[9064-57-7] MFCD00151513
MI14-1864 RTECS FI0704000



New

C0064 Cellulose PAB Capacity: 0.20meq/g

10g

[9032-51-3] MFCD00146347

New

C0068 Cellulose TEAE Capacity:0.72 meq/g

10g

MFCD00146355

C0072 Chitin

25g 250g

$(C_8H_{13}NO_5)_n$ [1398-61-4] MFCD00466914
MI14-2065 RTECS FM6125000

C2395 Chitosan

25g 100g 500g

(5-20mPa·s, 0.5% in 0.5% Acetic Acid at 20°C)

[9012-76-4] MFCD00161512

C2396 Chitosan

25g 100g

(20-100mPa·s, 0.5% in 0.5% Acetic Acid at 20°C)

[9012-76-4] MFCD00161512

C0831 Chitosan

25g 500g

(200-600mPa·s, 0.5% in 0.5% Acetic Acid at 20°C)

[9012-76-4] MFCD00161512

C0335 Chondroitin Sulfate Sodium Salt

25g 100g

[9082-07-9] MFCD01310245
RTECS GA8410000

D3672 Dermatan Sulfate Sodium Salt

20mg 100mg

[54328-33-5] MFCD00151683

D1448 Dextran 40 (Mw.=ca. 40,000)

25g 100g 500g

[9004-54-0] MFCD00130935
MI14-2948 RTECS HH9246000

Polysaccharide-④

D1449 Dextran 70 (Mw.=ca. 70,000)

25g 100g 500g

[9004-54-0] MFCD00130935
MI14-2948 RTECS HH9247500

New **D4657 Dextrin**

100g 500g

[9004-53-9] MFCD00081554
MI14-2953 RTECS HH9450000

New **E0265 Ethyl Cellulose**

25g 500g

[9-11mPa·s, 5% in Toluene + Ethanol (80:20) at 25°C]

[9004-57-3] MFCD00131037
MI14-3781 RTECS FJ5950500

New **E0072 Ethyl Cellulose**

25g 500g

[18-22mPa·s, 5% in Toluene + Ethanol (80:20) at 25°C]

[9004-57-3] MFCD00131037
MI14-3781 RTECS FJ5950500

New **E0266 Ethyl Cellulose**

25g 500g

[45-55mPa·s, 5% in Toluene + Ethanol (80:20) at 25°C]

[9004-57-3] MFCD00131037
MI14-3781 RTECS FJ5950500

New **E0290 Ethyl Cellulose**

25g 500g

[90-110mPa·s, 5% in Toluene + Ethanol (80:20) at 25°C]

[9004-57-3] MFCD00131037
MI14-3781 RTECS FJ5950500

New **F0918 Fluorescein Isothiocyanate Dextran**

100mg

(Mw.=ca. 10,000)

[60842-46-8] MFCD00131092

試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

G0331 Glucan from Black Yeast

1g 5g

[9012-72-0] MFCD00466924
RTECS LZ3982600**New G0478 Guar Gum**

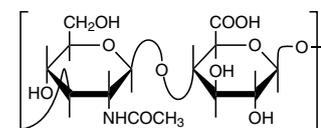
25g 500g

[9000-30-0] MFCD00131250
MI14-4571 RTECS MG0185000**H0393 Heparin Sodium Salt** from Hog Intestine

100mg 1g

[9041-08-1] MFCD00081689
RTECS MI0850000**H0595 Hyaluronic Acid** from Cockscomb

1g

[9004-61-9] MFCD00131348
MI14-4757**New H0242 Hydroxyethyl Cellulose**
(200-300mPa·s, 2% in Water at 20°C)

25g 500g

[9004-62-0] MFCD00072770
MI14-4673 RTECS FJ5958000**New H0418 Hydroxyethyl Cellulose**
(800-1,500mPa·s, 2% in Water at 20°C)

25g 500g

[9004-62-0] MFCD00072770
MI14-4673 RTECS FJ5958000**New H0392 Hydroxyethyl Cellulose**
(4,500-6,500mPa·s, 2% in Water at 25°C)

25g 500g

[9004-62-0] MFCD00072770
MI14-4673 RTECS FJ5958000

Polysaccharide-⑥

New **H0473 Hydroxypropyl Cellulose** 25g 500g
(3-6mPa·s, 2% in Water at 20°C)

[9004-64-2] MFCD00132688
MI14-4841 RTECS NF9050000

New **H0474 Hydroxypropyl Cellulose** 25g 500g
(6-10mPa·s, 2% in Water at 20°C)

[9004-64-2] MFCD00132688
MI14-4841 RTECS NF9050000

New **H0386 Hydroxypropyl Cellulose** 25g 500g
(150-400mPa·s, 2% in Water at 20°C)

[9004-64-2] MFCD00132688
MI14-4841 RTECS NF9050000

New **H0475 Hydroxypropyl Cellulose** 25g 500g
(1,000-4,000mPa·s, 2% in Water at 20°C)

[9004-64-2] MFCD00132688
MI14-4841 RTECS NF9050000

New **I1067 Inulin** (by Enzymatic Synthesis) 25g 500g

[9005-80-5] MFCD00131407
MI14-5004

New **M0290 Methyl Cellulose** 25g 500g
(13-18mPa·s, 2% in Water at 20°C)

[9004-67-5] MFCD00081763
MI14-6040 RTECS FJ5959000

New **M0291 Methyl Cellulose** 25g 500g
(20-30mPa·s, 2% in Water at 20°C)

[9004-67-5] MFCD00081763
MI14-6040 RTECS FJ5959000

試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

New **M0292 Methyl Cellulose** 25g 500g
(80-120mPa·s, 2% in Water at 20°C)

[9004-67-5] MFCD00081763
MI14-6040 RTECS FJ5959000

New **M0293 Methyl Cellulose** 25g 500g
(350-550mPa·s, 2% in Water at 20°C)

[9004-67-5] MFCD00081763
MI14-6040 RTECS FJ5959000

New **M0294 Methyl Cellulose** 25g 500g
(1,000-1,800mPa·s, 2% in Water at 20°C)

[9004-67-5] MFCD00081763
MI14-6040 RTECS FJ5959000

New **M0185 Methyl Cellulose** 25g 500g
(3,500-5,600mPa·s, 2% in Water at 20°C)

[9004-67-5] MFCD00081763
MI14-6040 RTECS FJ5959000

New **M0295 Methyl Cellulose** 25g 500g
(7,000-10,000mPa·s, 2% in Water at 20°C)

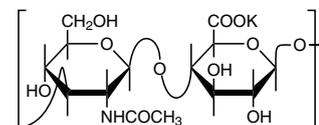
[9004-67-5] MFCD00081763
MI14-6040 RTECS FJ5959000

P0024 Pectin from Citrus 25g 500g

[9000-69-5] MFCD00081838
MI14-7063

H0652 Potassium Hyaluronate from Cockscomb 1g

[31799-91-4] MFCD00131349

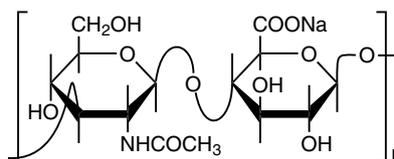


New **P0978 Pullulan** 25g 100g 500g

[9057-02-7] MFCD00081940
RTECS U05470000

H0603 Sodium Hyaluronate from Cockscomb 100mg 1g

[9067-32-7] MFCD00875848
MI14-4757 RTECS MT7250000



New **T0909 Tamarind Gum** 25g 500g
from Tamarind seed, Polysaccharide

[39386-78-2] MFCD00148561

X0048 Xanthan Gum 25g 100g 500g

[11138-66-2] MFCD00131256
MI14-10057

New **X0078 Xylan** from Corn Core 25g 100g

[9014-63-5] MFCD00082148

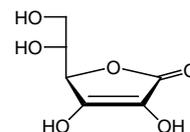
Z0008 Zymosan [Immunological Reagent] 100mg 1g

[9010-72-4] MFCD00082157
MI14-10200 RTECS ZI2750000

A0520 D-Araboascorbic Acid

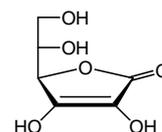
25g 500g

>98.0%(T) $C_6H_8O_6 = 176.12$ [89-65-6] MFCD00005378
 MI14-5126 RTECS KF3015000

**A0537 L-Ascorbic Acid**

25g 500g

>99.0%(T) $C_6H_8O_6 = 176.12$ [50-81-7] MFCD00064328
 mp 192°C
 Beil. 18(3/4)3038 MI14-830 RTECS CI7650000

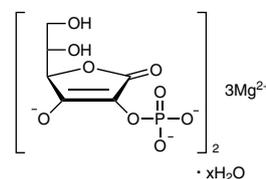


New

A2521 L-Ascorbic Acid 2-Phosphate Sesquimagnesium Salt Hydrate

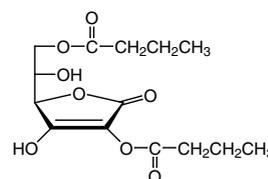
5g 25g

>98.0%(HPLC) $C_{12}H_{12}Mg_3O_{18}P_2 \cdot xH_2O = 579.07(\text{Anh})$ [113170-55-1]

**A1205 L-Ascorbyl 2,6-Dibutyrate**

1g

>98.0%(T) $C_{14}H_{20}O_8 = 316.31$ [4337-04-6] MFCD00144561
 mp 125°C

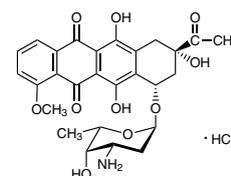


New

D4532 Daunorubicin Hydrochloride

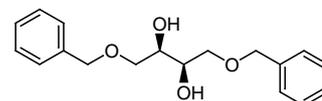
20mg 100mg

>98.0%(HPLC)(N) $C_{27}H_{29}NO_{10} \cdot HCl = 563.98$ [23541-50-6] MFCD04974507
 MI14-2832 RTECS HB7878000

**D2239 (+)-1,4-Di-O-benzyl-D-threitol**

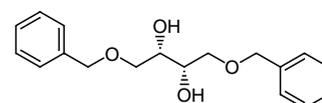
1g

>98.0%(GC) $C_{18}H_{22}O_4 = 302.37$ [91604-41-0] MFCD00077722
 mp 56°C

**D2240 (-)-1,4-Di-O-benzyl-L-threitol**

1g 5g

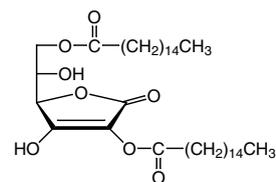
>98.0%(GC) $C_{18}H_{22}O_4 = 302.37$ [17401-06-8] MFCD00077723
 mp 56°C



A0757 2,6-Di-O-palmitoyl-L-ascorbic Acid

25g

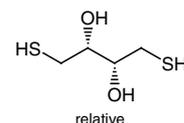
>97.0%(T) $C_{38}H_{68}O_8 = 652.95$ [4218-81-9] MFCD00059738
mp 113°C



D1071 DL-Dithiothreitol

1g 5g 25g

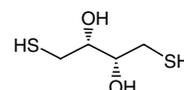
>98.0%(T) $C_4H_{10}O_2S_2 = 154.24$ [3483-12-3] MFCD00004877
mp 43°C bp 130°C /2mmHg
Beil. 1(3)2360 MI14-3376 RTECS X08576500



D1589 L-Dithiothreitol

1g 5g

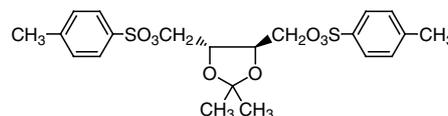
>95.0%(T) $C_4H_{10}O_2S_2 = 154.24$ [16096-97-2] MFCD00064305
mp 51°C
RTECS EK1612000



D1622 (+)-1,4-Di-O-tosyl-2,3-O-isopropylidene-threitol

1g

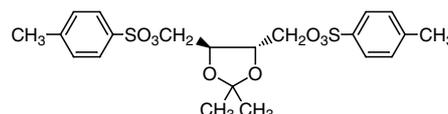
>97.0%(HPLC) $C_{21}H_{26}O_8S_2 = 470.55$ [51064-65-4] MFCD00063235
mp 90°C



D1623 (-)-1,4-Di-O-tosyl-2,3-O-isopropylidene-L-threitol

1g 5g

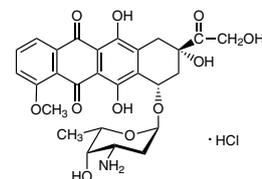
>98.0%(HPLC) $C_{21}H_{26}O_8S_2 = 470.55$ [37002-45-2] MFCD00003212
mp 93°C



New **D4193 Doxorubicin Hydrochloride**

25mg 100mg

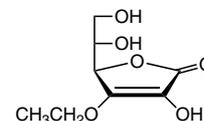
>95.0%(HPLC) $C_{27}H_{29}NO_{11} \cdot HCl = 579.98$ [25316-40-9] MFCD00077757
MI14-3439 RTECS QI9295900



E0926 3-O-Ethyl-L-ascorbic Acid

5g 25g

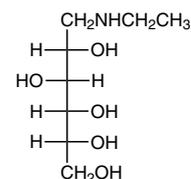
>98.0%(HPLC)(T) $C_8H_{12}O_6 = 204.18$ [86404-04-8] MFCD09261382
mp 114°C



E0923 N-Ethyl-D-glucamine

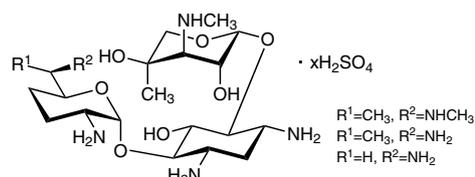
25g 250g

>98.0%(T) C₈H₁₉NO₅ = 209.24 [14216-22-9] MFCD03789564
mp 139°C

**G0383 Gentamicin Sulfate**

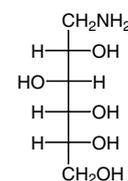
1g 5g

[1405-41-0] MFCD00270181
RTECS LY2625000

**G0252 D-Glucamine**

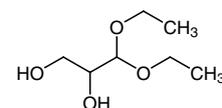
5g 25g

>97.0%(T) C₆H₁₅NO₅ = 181.19 [488-43-7] MFCD00077776
Beil. 4(4)1913 MI14-4449

**G0216 DL-Glyceraldehyde Diethyl Acetal**

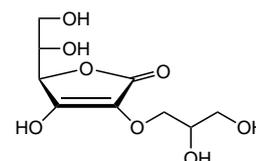
5g 25g

>95.0%(GC) C₇H₁₆O₄ = 164.20 [10487-05-5] MFCD00059599
bp 136°C /27mmHg d 1.06

**New G0451 Glyceryl Ascorbate**

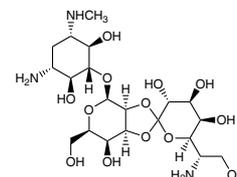
5g 25g

>95.0%(T) C₉H₁₄O₈ = 250.20 [1120360-13-5]
mp 159°C

**New H1509 Hygromycin B**

200mg 1g

>80.0%(HPLC) C₂₀H₃₇N₃O₁₃ = 527.52 [31282-04-9] MFCD06795479
MI14-4852 RTECS WK2130000

**I0043 Invertose**

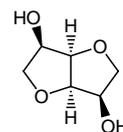
25g

[8013-17-0] MFCD00148911
MI14-5006

I0406 Isomannide

5g 25g

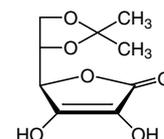
>98.0%(GC) C₆H₁₀O₄ = 146.14 [641-74-7] MFCD00064818
 mp 86°C bp 150°C /12mmHg
 Beil. 19(3/4)990



I0507 (+)-5,6-O-Isopropylidene-L-ascorbic Acid

5g 25g

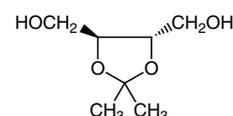
>98.0%(HPLC)(T) C₉H₁₂O₆ = 216.19 [15042-01-0] MFCD00010552
 Beil. 19(5)10,501



I0376 (+)-2,3-O-Isopropylidene-L-threitol

1g 5g

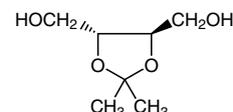
>97.0%(GC) C₇H₁₄O₄ = 162.19 [50622-09-8] MFCD00063761
 mp 46°C
 Beil. 19(5)3,157



I0375 (-)-2,3-O-Isopropylidene-D-threitol

1g 5g

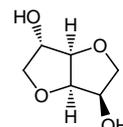
>98.0%(GC) C₇H₁₄O₄ = 162.19 [73346-74-4] MFCD00009761
 mp 50°C bp 96°C /0.7mmHg
 Beil. 19(3/4)971



I0407 Isosorbide

25g 100g 500g

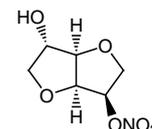
>98.0%(GC) C₆H₁₀O₄ = 146.14 [652-67-5] MFCD00064827
 mp 61°C
 MI14-5224 RTECS LZ4380000



I0403 Isosorbide 5-Nitrate

10g

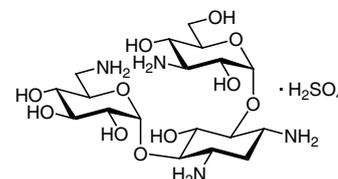
>98.0%(N) C₆H₉NO₆ = 191.14 [16051-77-7] MFCD00143462
 mp 92°C
 MI14-5225 RTECS LZ4386500



New **K0047 Kanamycin Monosulfate**

5g 25g

>94.0%(N) C₁₈H₃₆N₄O₁₁ · H₂SO₄ = 582.58 [25389-94-0] MFCD00070253
 Beil. 18(4)7631 MI14-5281 RTECS NZ3225030

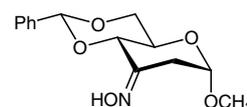


New

M2081 Methyl 4,6-O-Benzylidene-2-deoxy- α -D-erythro-hexopyranosid-3-ulose Oxime

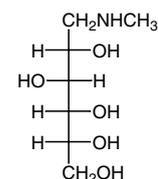
1g

>98.0%(HPLC)(T) $C_{14}H_{17}NO_5 = 279.29$ [63598-32-3]
mp 200°C

**M0227 N-Methyl-D-glucamine**

25g 500g

>99.0%(T) $C_7H_{17}NO_5 = 195.22$ [6284-40-8] MFCD00004707
mp 131°C
MI14-6078

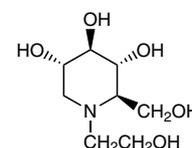


New

M2302 Miglitol

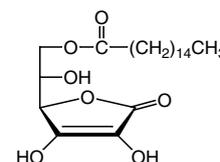
1g 5g

>98.0%(GC)(T) $C_8H_{17}NO_5 = 207.23$ [72432-03-2] MFCD00867240
mp 146°C
MI14-6187 RTECS TN4350170

**A0540 6-O-Palmitoyl-L-ascorbic Acid**

25g

>97.0%(T) $C_{22}H_{38}O_7 = 414.54$ [137-66-6] MFCD00005377
mp 114°C
RTECS CI7671040

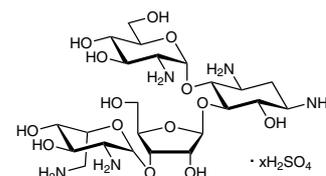


New

P2092 Paromomycin Sulfate

1g 5g

>94.0%(HPLC) $C_{23}H_{45}N_5O_{14} \cdot xH_2SO_4$ [1263-89-4] MFCD00079278
MI14-7041 RTECS WK2320000

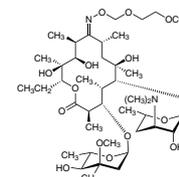


New

R0164 Roxithromycin

5g 25g

>95.0%(HPLC) $C_{41}H_{76}N_2O_{15} = 837.06$ [80214-83-1] MFCD00214389
mp 120°C
MI14-8276 RTECS KF4990000

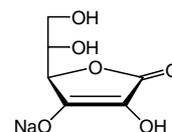
**S0019 Saponin**

25g 250g

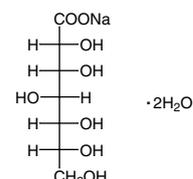
[8047-15-2] MFCD00081981
RTECS VQ1400000

A0539 Sodium L-Ascorbate**25g 500g**

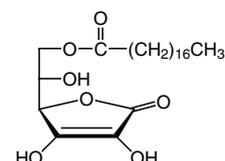
>98.0%(T) $C_6H_7NaO_6 = 198.11$ [134-03-2] MFCD00082340
RTECS CI7671000

**G0214 Sodium Glucoheptonate Dihydrate****25g 500g**

>98.0%(T) $C_7H_{13}NaO_8 \cdot 2H_2O = 248.16(\text{Anh})$ [31138-65-5] MFCD00013425

**A0617 6-O-Stearoyl-L-ascorbic Acid****5g**

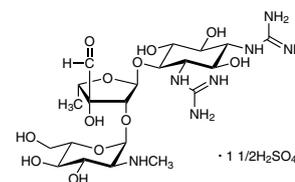
>95.0%(T) $C_{24}H_{42}O_7 = 442.59$ [10605-09-1] MFCD00059739
mp 117°C
RTECS CI7671310



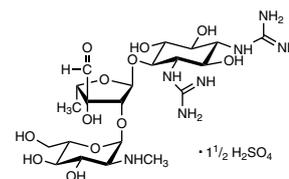
New

S0834 Streptomycin Sulfate
[for Protein Research]**5g 25g**

>95.0%(N) $C_{21}H_{39}N_7O_{12} \cdot 1\frac{1}{2}H_2SO_4 = 728.69$ [3810-74-0] MFCD00037023
Beil. 18(5)11,82 MI14-8826 RTECS WK4990000

**S0585 Streptomycin Sulfate****25g 500g**

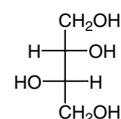
>95.0%(T)(N) $C_{21}H_{39}N_7O_{12} \cdot 1\frac{1}{2}H_2SO_4 = 728.69$ [3810-74-0] MFCD00037023
Beil. 18(5)11,82 MI14-8826 RTECS WK4990000

**S0112 Sucrose Fatty Acid Ester****25g 500g**

MFCD00148531

T1647 L-Threitol**1g**

>98.0%(GC) $C_4H_{10}O_4 = 122.12$ [2319-57-5] MFCD00064294
mp 90°C
Beil. 1(4)2808

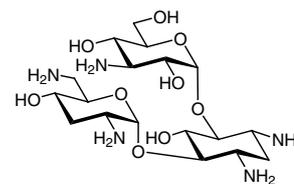


New

T2503 Tobramycin

>94.0%(T) $C_{18}H_{37}N_5O_9$ = 467.52 [32986-56-4] MFCD00077885
mp 178°C
MI14-9490 RTECS WK2100000

5g 25g



Reagents for Oligosaccharide Synthesis-①

A1668 Acetic Anhydride

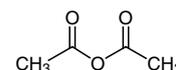
(ca. 1mol/L in Dichloromethane)

$C_4H_6O_3 = 102.09$ [108-24-7] MFCD00008705

d 1.30

Beil. 2(4)386 MI14-56 F&F 15,1

100mL 500mL



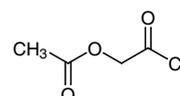
A1500 Acetoxyacetyl Chloride

>95.0%(GC)(T) $C_4H_5ClO_3 = 136.53$ [13831-31-7] MFCD00011535

bp 160°C d 1.27 flp 71°C

Beil. 3,240

25g 100g



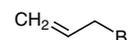
B0643 Allyl Bromide

>98.0%(GC) $C_3H_5Br = 120.98$ [106-95-6] MFCD00000244

bp 71°C d 1.43 flp 12°C

Beil. 1,201 MI14-288 RTECS UC7090000

25g 500g



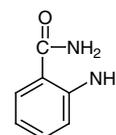
A0262 2-Aminobenzamide

>98.0%(HPLC)(T) $C_7H_8N_2O = 136.15$ [88-68-6] MFCD00007981

mp 111°C

Beil. 14(3)889 RTECS CU8993000

25g 100g 500g



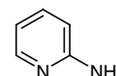
A0411 2-Aminopyridine

>99.0%(GC)(T) $C_5H_6N_2 = 94.12$ [504-29-0] MFCD00006312

mp 61°C bp 105°C /20mmHg

Beil. 22(3/4)3840 MI14-473 F&F 9,18 RTECS US1575000

25g 100g 500g



C1806 Ammonium Cerium(IV) Nitrate

>98.0%(T) $H_8CeN_8O_{18} = 548.22$ [16774-21-3] MFCD00151121

MI14-1992 F&F 20,73

50g 500g



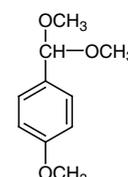
A1247 p-Anisaldehyde Dimethyl Acetal

>97.0%(GC) $C_{10}H_{14}O_3 = 182.22$ [2186-92-7] MFCD00036507

d 1.07 flp 98°C

Beil. 8,74

25mL 500mL

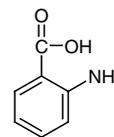


Reagents for Oligosaccharide Synthesis-②

A0497 Anthranilic Acid

25g 100g 500g

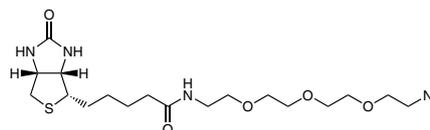
>99.0%(HPLC)(T) $C_7H_7NO_2 = 137.14$ [118-92-3] MFCD00007712
mp 146°C
Beil. 14(3)879 RTECS CB2450000



A2523 N-[2-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethyl]biotinamide

100mg

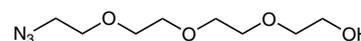
>95.0%(HPLC) $C_{18}H_{32}N_6O_5S = 444.55$ [875770-34-6] MFCD20134145
mp 110°C



A2294 11-Azido-3,6,9-trioxaundecanol

100mg

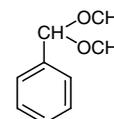
>97.0%(GC) $C_8H_{17}N_3O_4 = 219.24$ [86770-67-4] MFCD03701128



B1197 Benzaldehyde Dimethyl Acetal

25mL 100mL 500mL

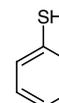
>98.0%(GC) $C_9H_{12}O_2 = 152.19$ [1125-88-8] MFCD00008491
bp 196°C d 1.02 flp 71°C
Beil. 7,209 RTECS CU5774000



B0041 Benzenethiol

25mL 100mL 500mL

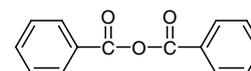
>98.0%(GC) $C_6H_6S = 110.17$ [108-98-5] MFCD00004826
d 1.08 flp 76°C
Beil. 6,294 MI14-9355 F&F 10,399 RTECS DC0525000



B0078 Benzoic Anhydride

25g 100g 500g

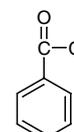
>97.0%(GC)(T) $C_{14}H_{10}O_3 = 226.23$ [93-97-0] MFCD00003073
mp 42°C bp 158°C /1mmHg
Beil. 9,164 MI14-1092 F&F 5,23



B0105 Benzoyl Chloride

25mL 500mL

>98.0%(GC)(T) $C_7H_5ClO = 140.57$ [98-88-4] MFCD00000653
bp 198°C d 1.22 flp 72°C
Beil. 9,182 MI14-1112 F&F 5,24 RTECS DM6600000

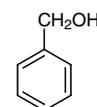


Reagents for Oligosaccharide Synthesis-③

B2378 Benzyl Alcohol

>99.0%(GC) C₇H₈O = 108.14 [100-51-6] MFCD00004599
 bp 200°C d 1.05 flp 100°C
 Beil. 6(4)2222 MI14-1124 RTECS DN3150000

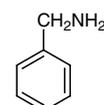
500g



B0406 Benzylamine

>99.0%(GC) C₇H₉N = 107.16 [100-46-9] MFCD00008106
 bp 184°C d 0.98 flp 60°C
 Beil. 12,1013 MI14-1125 F&F 10,26 RTECS DP1488500

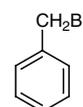
25mL 500mL



B0411 Benzyl Bromide (stabilized with Propylene Oxide)

>98.0%(GC) C₇H₇Br = 171.04 [100-39-0] MFCD00000172
 d 1.44 flp 79°C
 Beil. 5,306 MI14-1128 F&F 5,25 RTECS XS7965000

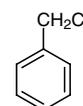
25g 100g 500g



B0412 Benzyl Chloride (stabilized with ε-Caprolactam)

>99.0%(GC) C₇H₇Cl = 126.58 [100-44-7] MFCD00000889
 bp 179°C d 1.10 flp 67°C
 Beil. 5,292 MI14-1129 RTECS XS8925000

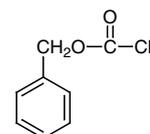
25g 500g



C0176 Benzyl Chloroformate (30-35% in Toluene)

C₈H₇ClO₂ = 170.59 [501-53-1] MFCD00000640
 d 0.96
 Beil. 6(4)2278 MI14-1801 F&F 2,59

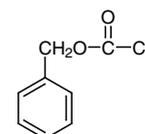
25mL 500mL



B3021 Benzyl Chloroformate

>96.0%(T) C₈H₇ClO₂ = 170.59 [501-53-1] MFCD00000640
 bp 103°C /20mmHg d 1.21 flp 80°C
 Beil. 6(4)2278 MI14-1801 F&F 2,59 RTECS LQ5860000

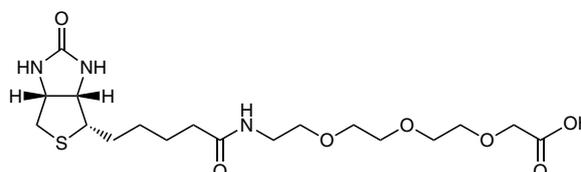
25g 250g



New B5711 Biotin-PEG₃-acetic Acid

C₁₈H₃₁N₃O₇S = 433.52 [1189560-96-0]

Price on request

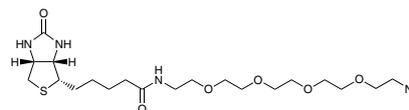


多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用はお避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

B5546 Biotin-PEG₄-Azide

100mg

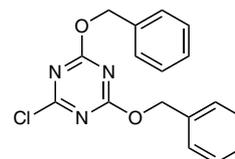
>96.0%(HPLC) C₂₀H₃₆N₆O₆S = 488.60 [1309649-57-7] MFCD29495433
mp 104°C



B4587 2,4-Bis(benzyloxy)-6-chloro-1,3,5-triazine

200mg 1g

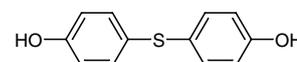
>95.0%(HPLC)(T) C₁₇H₁₄ClN₃O₂ = 327.77 [851030-18-7]
mp 66°C



D1356 Bis(4-hydroxyphenyl) Sulfide

25g 500g

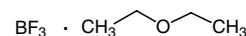
>98.0%(GC) C₁₂H₁₀O₂S = 218.27 [2664-63-3] MFCD00002349
mp 152°C
Beil. 6,860 RTECS SN0800000



B0527 Boron Trifluoride-Ethyl Ether Complex

25mL 100mL 500mL

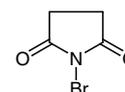
>98.0%(W) BF₃ · C₄H₁₀O = 141.93 [109-63-7] MFCD00013194
bp 124°C d 1.13
MI14-1350 F&F 9,64



B0656 N-Bromosuccinimide

25g 100g 500g

>98.0%(T) C₄H₄BrNO₂ = 177.99 [128-08-5] MFCD00005510
Beil. 21(5)9,543 MI14-1438 F&F 9,70

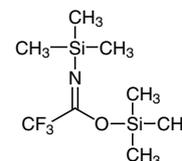


A5603 BSTFA

5mL

[=N,O-Bis(trimethylsilyl)trifluoroacetamide]
[for Gas Chromatography]

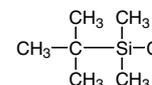
>95.0%(GC) C₈H₁₈F₃NOSi₂ = 257.40 [25561-30-2] MFCD00008269
bp 142°C flp 24°C



B0995 tert-Butyldimethylchlorosilane [tert-Butyldimethylsilylating Agent]

5g 25g 100g

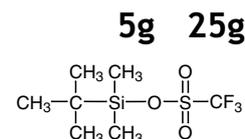
>98.0%(GC) C₆H₁₅ClSi = 150.72 [18162-48-6] MFCD00000501
mp 88°C bp 125°C
F&F 10,62 RTECS VV2000000



Reagents for Oligosaccharide Synthesis-⑤

T1525 tert-Butyldimethylsilyl Trifluoromethanesulfonate

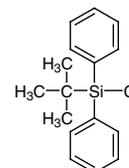
>98.0%(T) C₇H₁₅F₃O₃SSi = 264.33 [69739-34-0] MFCD00000405
d 1.15 flp 36°C
F&F 15,54



B1223 tert-Butyldiphenylchlorosilane

>95.0%(GC) C₁₆H₁₉ClSi = 274.86 [58479-61-1] MFCD00000497
bp 125°C /0.06mmHg d 1.07 flp 112°C
F&F 6,81

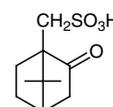
5mL 25mL 100mL



C0016 (±)-10-Camphorsulfonic Acid

>98.0%(T) C₁₀H₁₆O₄S = 232.29 [5872-08-2] MFCD00074827
Beil. 11,316

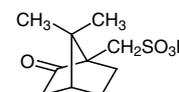
25g 100g 500g



C0015 (+)-10-Camphorsulfonic Acid

>98.0%(T) C₁₀H₁₆O₄S = 232.29 [3144-16-9] MFCD00064157
Beil. 11,314 MI14-1734 F&F 4,68 RTECS ED1550000

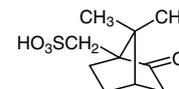
25g 100g 500g



C0972 (-)-10-Camphorsulfonic Acid

>98.0%(T) C₁₀H₁₆O₄S = 232.29 [35963-20-3] MFCD00064158
Beil. 11(3)585

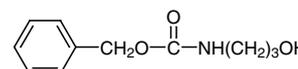
25g 100g 500g



C1932 3-(Carbobenzoxyamino)-1-propanol

>98.0%(HPLC)(N) C₁₁H₁₅NO₃ = 209.25 [34637-22-4] MFCD01321351
mp 54°C

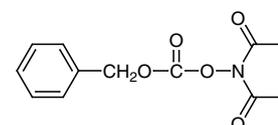
5g 25g



C1124 N-Carbobenzoxyoxsuccinimide

>98.0%(N) C₁₂H₁₁NO₅ = 249.22 [13139-17-8] MFCD00005513
mp 81°C

25g 250g

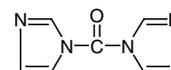


Reagents for Oligosaccharide Synthesis-⑥

C0119 1,1'-Carbonyldiimidazole [Coupling Agent for Peptides Synthesis]

5g 25g 250g

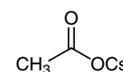
>97.0%(W) C₇H₆N₄O = 162.15 [530-62-1] MFCD00005286
mp 118°C
Beil. 23(3/4)575 MI14-1819 F&F 9,96



C2430 Cesium Acetate

25g 100g

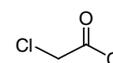
>98.0%(T) C₂H₃CsO₂ = 191.95 [3396-11-0] MFCD00013056
mp 193°C
Beil. 2(3)134



C0098 Chloroacetyl Chloride

25g 100g 500g

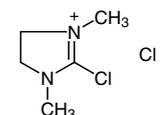
>98.0%(GC)(T) C₂H₂Cl₂O = 112.94 [79-04-9] MFCD00000725
bp 105°C d 1.42
Beil. 2,199 MI14-2067 F&F 3,46 RTECS AO6475000



C1408 2-Chloro-1,3-dimethylimidazolinium Chloride

5g 25g

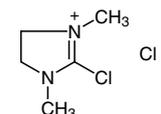
>98.0%(HPLC) C₅H₁₀Cl₂N₂ = 169.05 [37091-73-9] MFCD00137463



C1639 2-Chloro-1,3-dimethylimidazolinium Chloride (ca. 25% in Dichloromethane)

25g

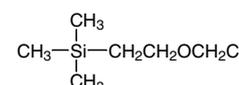
C₅H₁₀Cl₂N₂ = 169.05 [37091-73-9] MFCD00137463



C1339 2-(Chloromethoxy)ethyltrimethylsilane (stabilized with Diisopropylethylamine)

5mL 25mL

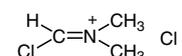
>95.0%(GC) C₆H₁₅ClOSi = 166.72 [76513-69-4] MFCD00009919
bp 59°C /8mmHg d 0.95 flp 46°C
F&F 10,431



C1545 (Chloromethylene)dimethyliminium Chloride

25g 250g

>95.0%(T) C₃H₇Cl₂N = 128.00 [3724-43-4] MFCD00011868
Beil. 4(4)175 F&F 13,341

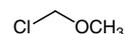


Reagents for Oligosaccharide Synthesis-⑦

C0202 Chloromethyl Methyl Ether

25g 100g 500g

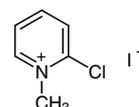
>95.0%(GC) C₂H₅ClO = 80.51 [107-30-2] MFCD00000885
 bp 59°C d 1.07 flp -6°C
 Beil. 1,580 MI14-2146 F&F 9,107 RTECS KN6650000



C0903 2-Chloro-1-methylpyridinium Iodide

25g

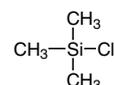
>98.0%(T) C₆H₇ClIN = 255.48 [14338-32-0] MFCD00011984
 MI14-6301 F&F 8,95



C0306 Chlorotrimethylsilane

25mL 100mL 500mL

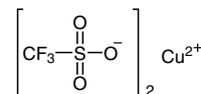
>98.0%(GC) C₃H₉ClSi = 108.64 [75-77-4] MFCD00000502
 bp 57°C d 0.86 flp -28°C
 Beil. 4(3)1857 F&F 10,96 RTECS VV2710000



T1292 Copper(II) Trifluoromethanesulfonate

5g 25g

>98.0%(T) C₂CuF₆O₆S₂ = 361.67 [34946-82-2] MFCD00077492



C0491 Cyclohexene

25mL 500mL

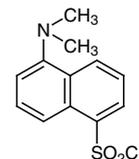
>99.0%(GC) C₆H₁₀ = 82.15 [110-83-8] MFCD00001539
 bp 82°C d 0.81 flp -6°C
 Beil. 5,63 MI14-2727 RTECS GW2500000



D0656 Dansyl Chloride

1g 5g 25g

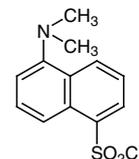
>98.0%(HPLC)(T) C₁₂H₁₂ClNO₂S = 269.74 [605-65-2] MFCD00003985
 mp 70°C
 MI14-2814 RTECS QK3688000



D0005 Dansyl Chloride (10% in Acetone)

10mL

C₁₂H₁₂ClNO₂S = 269.74 [605-65-2] MFCD00003985
 MI14-2814



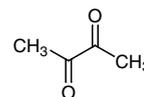
多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用はお避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

Reagents for Oligosaccharide Synthesis-⑧

B0682 Diacetyl

25mL 100mL 500mL

>98.0%(GC) C₄H₆O₂ = 86.09 [431-03-8] MFCD00008756
 bp 88°C d 0.98 flp 11°C
 Beil. 1,769 MI14-2966 F&F 7,21 RTECS EK2625000



D0134 1,4-Diazabicyclo[2.2.2]octane

25g 100g 500g

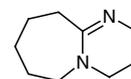
>98.0%(GC)(T) C₆H₁₂N₂ = 112.18 [280-57-9] MFCD00006689
 mp 155°C
 MI14-9669 F&F 7,86 RTECS HM0354200



D1270 1,8-Diazabicyclo[5.4.0]-7-undecene

25g 100g 500g

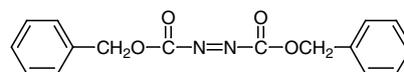
>98.0%(GC)(T) C₉H₁₆N₂ = 152.24 [6674-22-2] MFCD00006930
 bp 83°C /0.6mmHg d 1.02 flp 116°C
 F&F 7,87



A0776 Dibenzyl Azodicarboxylate (40% in Dichloromethane, ca. 1.7mol/L)

5g 25g

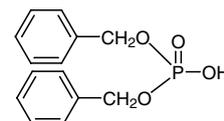
C₁₆H₁₄N₂O₄ = 298.30 [2449-05-0] MFCD00016737



P1120 Dibenzyl Phosphate

5g 25g

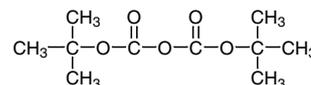
>98.0%(HPLC)(T) C₁₄H₁₅O₄P = 278.24 [1623-08-1] MFCD00004775
 mp 81°C
 Beil. 6,439



D3878 Di-tert-butyl Dicarbonate (ca. 30% in Dioxane)

100g 500g

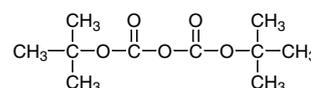
C₁₀H₁₈O₅ = 218.25 [24424-99-5] MFCD00008805



D3879 Di-tert-butyl Dicarbonate (ca. 30% in Tetrahydrofuran)

100mL 500mL

C₁₀H₁₈O₅ = 218.25 [24424-99-5] MFCD00008805

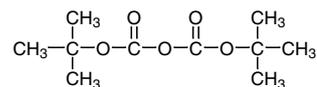


Reagents for Oligosaccharide Synthesis-⑨

D3880 Di-tert-butyl Dicarbonate (ca. 30% in Toluene)

$C_{10}H_{18}O_5 = 218.25$ [24424-99-5] MFCD00008805

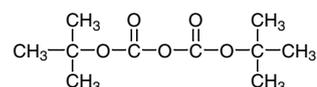
100g 400g



D1547 Di-tert-butyl Dicarbonate [Boc-reagent for Amino Acid]

>95.0%(T) $C_{10}H_{18}O_5 = 218.25$ [24424-99-5] MFCD00008805
fp 23°C flp 47°C
F&F 10,122 RTECS HT0230000

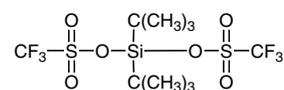
25g 100g 500g



D3135 Di-tert-butylsilyl Bis(trifluoromethanesulfonate)

>97.0%(T) $C_{10}H_{18}F_6O_6S_2Si = 440.44$ [85272-31-7]
d 1.36 flp 90°C

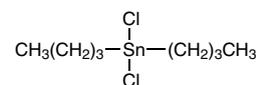
1g 5g



D0223 Dibutyltin Dichloride

>97.0%(T) $C_8H_{18}Cl_2Sn = 303.84$ [683-18-1] MFCD00000518
mp 42°C
F&F 1,213 RTECS WH7100000

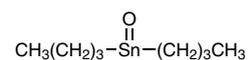
25g 100g 500g



D0305 Dibutyltin Oxide

>95.0%(W) $C_8H_{18}OSn = 248.94$ [818-08-6] MFCD00001992
Beil. 4(1)588 F&F 9,141 RTECS WH7175000

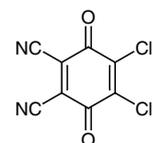
25g 100g



D1070 2,3-Dichloro-5,6-dicyano- 1,4-benzoquinone

>97.0%(T) $C_6Cl_2N_2O_2 = 227.00$ [84-58-2] MFCD00001593
mp 214°C
Beil. 10,902 MI14-3063 F&F 10,135 RTECS GU4825000

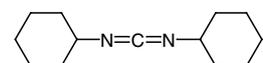
25g 250g



D0436 N,N'-Dicyclohexylcarbodiimide

>98.0%(GC) $C_{13}H_{22}N_2 = 206.33$ [538-75-0] MFCD00011659
fp 34°C
Beil. 9,156 MI14-3096 F&F 10,142 RTECS FF2160000

25g 400g

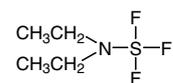


Reagents for Oligosaccharide Synthesis-10

D1868 (Diethylamino)sulfur Trifluoride [Fluorinating Reagent]

5g 25g 100g

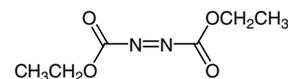
>90.0%(T) C₄H₁₀F₃NS = 161.19 [38078-09-0] MFCD00000363
bp 32°C /10mmHg d 1.23 flp 23°C
MI14-3113 F&F 10,142



A0705 Diethyl Azodicarboxylate (40% in Toluene, ca. 2.2mol/L)

25g 100g 250g

C₈H₁₀N₂O₄ = 174.16 [1972-28-7] MFCD00009103
d 0.96 flp 41°C
Beil. 3,123 F&F 9,160



D2971 Diisobutylaluminum Hydride (19% in Hexane, ca. 1.0mol/L)

100mL 500mL

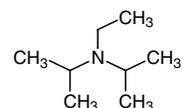
C₈H₁₉Al = 142.22 [1191-15-7] MFCD00008928
flp -23°C
Beil. 4(4)4400 F&F 17,123



D1599 N,N-Diisopropylethylamine

25mL 100mL 500mL

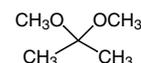
>99.0%(GC) C₈H₁₉N = 129.25 [7087-68-5] MFCD00008868
bp 127°C d 0.76 flp 12°C
Beil. 4(4)511 F&F 10,151



A0057 2,2-Dimethoxypropane

25mL 500mL

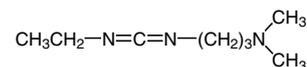
>98.0%(GC) C₅H₁₂O₂ = 104.15 [77-76-9] MFCD00008479
bp 80°C d 0.85 flp -9°C
Beil. 1,648 F&F 5,226



D4029 1-(3-Dimethylaminopropyl)- 3-ethylcarbodiimide

5g 25g

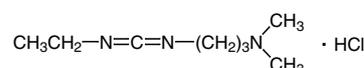
>98.0%(GC)(T) C₈H₁₇N₃ = 155.25 [1892-57-5] MFCD00044916
bp 45°C /0.3mmHg d 0.88



D1601 1-(3-Dimethylaminopropyl)- 3-ethylcarbodiimide Hydrochloride [Coupling Agent for Peptides Synthesis]

5g 25g 250g

>98.0%(T) C₈H₁₇N₃ · HCl = 191.70 [25952-53-8] MFCD00012503
mp 115°C
RTECS FF2200000

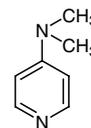


Reagents for Oligosaccharide Synthesis-⑪

D1450 4-Dimethylaminopyridine

25g 100g 500g

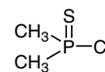
>99.0%(T) $C_7H_{10}N_2 = 122.17$ [1122-58-3] MFCD00006418
 mp 110°C bp 190°C /150mmHg
 Beil. 22(2)341 MI14-3389 F&F 10,155 RTECS US9230000



D2159 Dimethylthiophosphinoyl Chloride

1g 5g

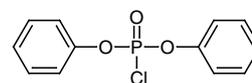
>97.0%(GC) $C_2H_6CIPS = 128.55$ [993-12-4] MFCD00014454
 bp 78°C /15mmHg d 1.22



D1059 Diphenyl Chlorophosphate

25g 100g 500g

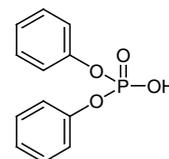
>95.0%(GC) $C_{12}H_{10}ClO_3P = 268.63$ [2524-64-3] MFCD00003030
 d 1.30
 Beil. 6,179 F&F 3,133



P0801 Diphenyl Phosphate

1g 25g

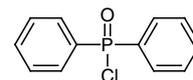
>99.0%(HPLC)(T) $C_{12}H_{11}O_4P = 250.19$ [838-85-7] MFCD00003033
 mp 69°C
 Beil. 6,178 RTECS TC5470000



C1415 Diphenylphosphinic Chloride

10g 25g

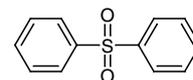
>98.0%(GC)(T) $C_{12}H_{10}ClOP = 236.63$ [1499-21-4] MFCD00002077
 bp 222°C /16mmHg d 1.27 flp 26°C
 Beil. 16(4)1038 F&F 15,150



P0231 Diphenyl Sulfone

25g 500g

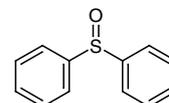
>99.0%(GC) $C_{12}H_{10}O_2S = 218.27$ [127-63-9] MFCD00007548
 mp 127°C
 Beil. 6,300 MI14-3332 RTECS SX2400000



D1002 Diphenyl Sulfoxide

5g 25g 100g

>99.0%(GC) $C_{12}H_{10}OS = 202.27$ [945-51-7] MFCD00002085
 mp 71°C bp 198°C /10mmHg
 Beil. 6,300 F&F 1,348 RTECS DA9185000

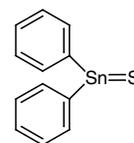


多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用はお避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

D2358 Diphenyltin Sulfide
[Activator for *O*-Glycoside Synthesis]

1g

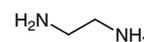
>97.0%(W) C₁₂H₁₀SSn = 304.98 [20332-10-9] MFCD00058856
mp 185°C



E0077 Ethylenediamine Anhydrous

25mL 500mL

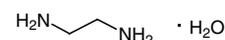
>98.0%(GC)(T) C₂H₈N₂ = 60.10 [107-15-3] MFCD00008204
fp 10°C bp 116°C d 0.90 flp 34°C
Beil. 4,230 MI14-3795 F&F 4,231 RTECS KH8575000



E0081 Ethylenediamine Monohydrate

25mL 500mL

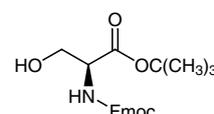
>98.0%(T) C₂H₈N₂ · H₂O = 60.10(Anh) [6780-13-8] MFCD00149563
bp 118°C d 0.96
Beil. 4,230 MI14-3795 F&F 4,231



F0516 N^α-[(9H-Fluoren-9-ylmethoxy)carbonyl]-L-serine tert-Butyl Ester

1g 5g

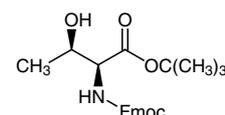
>98.0%(HPLC)(N) C₂₂H₂₅NO₅ = 383.44 [110797-35-8]
mp 127°C



F0517 N^α-[(9H-Fluoren-9-ylmethoxy)carbonyl]-L-threonine tert-Butyl Ester

1g 5g

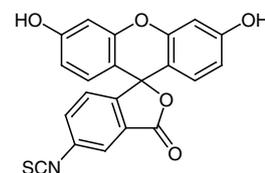
>98.0%(HPLC)(N) C₂₃H₂₇NO₅ = 397.47 [120791-76-6]
mp 100°C



F0026 Fluorescein 5-Isothiocyanate (isomer I)

100mg 1g

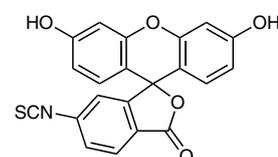
>97.0%(HPLC)(T) C₂₁H₁₁NO₅S = 389.38 [3326-32-7]



F0783 Fluorescein 6-Isothiocyanate (isomer II)

100mg

>97.0%(HPLC)(T) C₂₁H₁₁NO₅S = 389.38 [18861-78-4] MFCD00041838

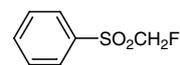


Reagents for Oligosaccharide Synthesis-⑬

F0341 Fluoromethyl Phenyl Sulfone

>98.0%(GC) C₇H₇FO₂S = 174.19 [20808-12-2] MFCD00191650
mp 53°C

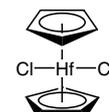
1g 5g



H0914 Hafnocene Dichloride

>98.0%(T) C₁₀H₁₀Cl₂Hf = 379.58 [12116-66-4] MFCD00001438
F&F 16,120 RTECS MG4815000

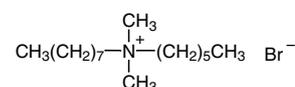
1g 5g 25g



H0989 Hexyldimethyloctylammonium Bromide

>97.0%(T) C₁₆H₃₆BrN = 322.38 [187731-26-6] MFCD03093632

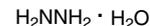
5g 25g



H0172 Hydrazine Monohydrate

>98.0%(T) H₄N₂ · H₂O = 32.05(Anh) [7803-57-8] MFCD00149931
d 1.03 flp 75°C
MI14-4771 F&F 9,236 RTECS MV8050000

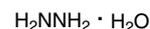
25mL 500mL



H0204 Hydrazine Monohydrate (79%)

H₄N₂ · H₂O = 32.05(Anh) [7803-57-8] MFCD00149931
d 1.03 flp 75°C
MI14-4771 F&F 9,236 RTECS MV8050000

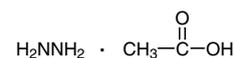
25g 500g



H1112 Hydrazine Acetate

>98.0%(T) H₄N₂ · C₂H₄O₂ = 92.10 [13255-48-6]
mp 101°C
Beil. 2,107 F&F 1,445

5g 25g



H0182 Hydrogen Bromide (30% in Acetic Acid, ca. 5.1mol/L) [for Peptide research]

HBr = 80.91 [10035-10-6] MFCD00011323
d 1.40
MI14-4778

25g 100g 500g



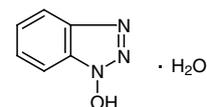
試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

Reagents for Oligosaccharide Synthesis-14

H0468 1-Hydroxybenzotriazole Monohydrate

>97.0%(T) $C_6H_5N_3O \cdot H_2O = 135.13$ (Anh) [80029-43-2] MFCD00005805
 mp 160°C
 Beil. 26,41 F&F 6,288 RTECS DM1288000

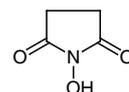
25g 500g



H0623 N-Hydroxysuccinimide

>98.0%(T) $C_4H_5NO_3 = 115.09$ [6066-82-6] MFCD00005516
 mp 98°C
 Beil. 21,380 F&F 9,246

25g 100g 500g



I0001 Imidazole

>98.0%(T) $C_3H_4N_2 = 68.08$ [288-32-4] MFCD00005183
 mp 90°C
 Beil. 23(3/4)564 MI14-4912 F&F 2,220 RTECS NI3325000

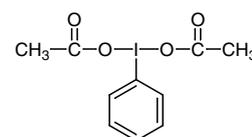
25g 100g 500g



I0330 Iodobenzene Diacetate

>97.0%(T) $C_{10}H_{11}IO_4 = 322.10$ [3240-34-4] MFCD00008692
 F&F 4,266 RTECS DA3525000

10g 25g 250g



I0060 Iodomethane (stabilized with Copper chip) 10mL 100mL 300mL

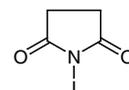
>99.5%(GC) $CH_3I = 141.94$ [74-88-4] MFCD00001073
 bp 43°C d 2.28
 Beil. 1,69 MI14-6087 F&F 9,308 RTECS PA9450000

CH_3I

I0074 N-Iodosuccinimide

>98.0%(T) $C_4H_4INO_2 = 224.99$ [516-12-1] MFCD00005512
 Beil. 21(5)9,544 MI14-5045 RTECS WN2817000

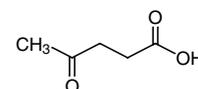
5g 25g 100g



L0042 Levulinic Acid

>97.0%(GC)(T) $C_5H_8O_3 = 116.12$ [123-76-2] MFCD00002796
 fp 29°C
 Beil. 3,671 MI14-5472 F&F 10,230 RTECS OI1575000

25g 500g

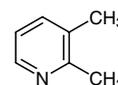


Reagents for Oligosaccharide Synthesis-⑮

L0063 2,3-Lutidine

25mL

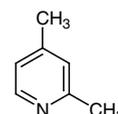
>98.0%(GC)(T) C₇H₉N = 107.16 [583-61-9] MFCD00009605
bp 161°C d 0.95 flp 50°C
Beil. 20(3/4)2765



L0085 2,4-Lutidine

25mL 500mL

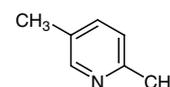
>98.0%(GC) C₇H₉N = 107.16 [108-47-4] MFCD00006337
bp 157°C d 0.93 flp 37°C
Beil. 20(3/4)2768 F&F 6,224 RTECS OK9400000



L0065 2,5-Lutidine

5mL 25mL 500mL

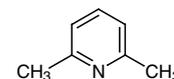
>98.0%(GC) C₇H₉N = 107.16 [589-93-5] MFCD00006343
bp 157°C d 0.93 flp 48°C
Beil. 20(3/4)2774 RTECS OK9625000



L0067 2,6-Lutidine

25mL 500mL

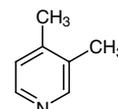
>98.0%(GC) C₇H₉N = 107.16 [108-48-5] MFCD00006345
bp 144°C d 0.92 flp 33°C
Beil. 20(3/4)2776 MI14-5616 F&F 1,626 RTECS OK9700000



L0066 3,4-Lutidine

25mL 500mL

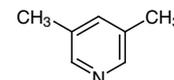
>98.0%(GC) C₇H₉N = 107.16 [583-58-4] MFCD00006403
bp 179°C d 0.96 flp 61°C
Beil. 20(3/4)2787 RTECS OK9800000



L0068 3,5-Lutidine

25mL 500mL

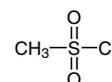
>98.0%(GC) C₇H₉N = 107.16 [591-22-0] MFCD00006404
bp 172°C d 0.94 flp 47°C
Beil. 20(3/4)2788



M0094 Methanesulfonyl Chloride

25g 500g

>99.0%(T) CH₃ClO₂S = 114.54 [124-63-0] MFCD00007454
bp 160°C d 1.48 flp 92°C
Beil. 4,5 MI14-5955 F&F 7,225 RTECS PB2790000

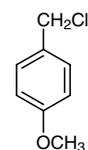


Reagents for Oligosaccharide Synthesis-16

M0676 4-Methoxybenzyl Chloride (stabilized with Amylene)

>98.0%(GC)(T) C₈H₉ClO = 156.61 [824-94-2] MFCD00000915
bp 127°C /24mmHg d 1.15 flp 109°C
Beil. 6(4)2137 F&F 1,668

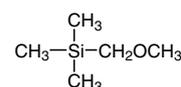
25mL



M1264 Methoxymethyltrimethylsilane

>95.0%(GC) C₅H₁₄O₂Si = 118.25 [14704-14-4] MFCD00009843
bp 85°C d 0.76 flp -5°C
Beil. 4(3)1844

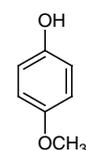
5mL



M0123 4-Methoxyphenol

>99.0%(GC) C₇H₈O₂ = 124.14 [150-76-5] MFCD00002332
mp 57°C bp 243°C
Beil. 6,843 RTECS SL7700000

25g 100g 500g



M0137 Methylamine (ca. 40% in Water, ca. 12mol/L)

CH₅N = 31.06 [74-89-5] MFCD00008104
d 0.90 flp -10°C
RTECS PF6300000

25mL 500mL



M0558 Methylhydrazine

>98.0%(GC) CH₆N₂ = 46.07 [60-34-4] MFCD00007621
bp 87°C d 0.87
Beil. 4(2)957 M114-6086 F&F 4,340 RTECS MV5600000

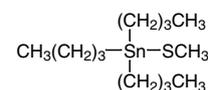
25mL 100mL



M1494 Methyl Tributylstannyl Sulfide

>98.0%(W) C₁₃H₃₀SSn = 337.15 [17314-32-8]
d 1.16

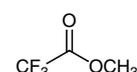
25g 100g



T0680 Methyl Trifluoroacetate

>98.0%(GC) C₃H₃F₃O₂ = 128.05 [431-47-0] MFCD00000417
bp 43°C d 1.29 flp -20°C
Beil. 2(4)463

25g 500g

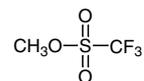


Reagents for Oligosaccharide Synthesis-⑰

T2029 Methyl Trifluoromethanesulfonate

5g 25g

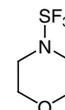
>98.0%(GC) C₂H₃F₃O₃S = 164.10 [333-27-7] MFCD00000409
 bp 99°C d 1.50 flp 38°C
 Beil. 3(4)34 F&F 17,191



M1573 Morpholinosulfur Trifluoride

1g 5g

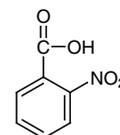
>93.0%(T) C₄H₈F₃NOS = 175.17 [51010-74-3] MFCD00037057
 bp 42°C /0.5mmHg flp 76°C



N0155 2-Nitrobenzoic Acid

25g 500g

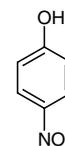
>90.0%(GC) C₇H₅NO₄ = 167.12 [552-16-9] MFCD00007137
 mp 144°C
 Beil. 9,370 MI14-6588 RTECS DH5050000



N0220 4-Nitrophenol

25g 500g

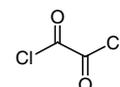
>99.0%(GC) C₆H₅NO₃ = 139.11 [100-02-7] MFCD00007331
 mp 114°C
 Beil. 6,226 MI14-6620 F&F 2,297 RTECS SM2275000



O0082 Oxalyl Chloride

25g 100g 500g

>98.0%(GC)(T) C₂Cl₂O₂ = 126.92 [79-37-8] MFCD00000704
 bp 64°C d 1.48
 Beil. 2,542 MI14-6914 F&F 8,366 RTECS KI2950000



P1785 Palladium

5g 25g

10% on Carbon (wetted with ca. 55% Water)
 [Useful catalyst for coupling reaction, etc.]

Pd

Pd = 106.42 [7440-05-3] MFCD00011167
 MI14-6989 F&F 15,245 RTECS RT3480500

P1491 Palladium

5g 25g

10% on Carbon (wetted with ca. 55% Water)

Pd

Pd = 106.42 [7440-05-3] MFCD03457879
 MI14-6989 F&F 15,245 RTECS RT3480500

Reagents for Oligosaccharide Synthesis-18

P1490 Palladium

5% on Carbon (wetted with ca. 55% Water)

5g 25g

Pd = 106.42 [7440-05-3] MFCD00011167
MI14-6989 F&F 15,245 RTECS RT3480500

Pd

P1489 Palladium(II) Chloride

1g 5g

>98.0%(T) PdCl₂ = 177.32 [7647-10-1] MFCD00003558
MI14-6990 F&F 20,293 RTECS RT3500000

PdCl₂

P1528 Palladium Hydroxide (contains Pd, PdO) on Carbon (wetted with ca. 50% Water)

10g 50g

Pd(OH)₂ = 140.43 [12135-22-7] MFCD00064599
MI14-7060 F&F 20,299

Pd(OH)₂

P1743 Phosphorus Tribromide

300g

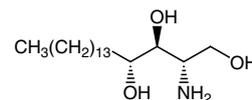
>98.0%(T) PBr₃ = 270.69 [7789-60-8] MFCD00011436
d 2.85
MI14-7357 RTECS TH4460000

PBr₃

New P1765 Phytosphingosine

1g 5g

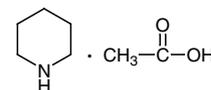
>98.0%(T) C₁₈H₃₉NO₃ = 317.51 [554-62-1] MFCD00079232
mp 102°C
Beil. 4(4)1906



P1481 Piperidinium Acetate

5g 25g

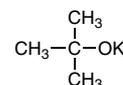
>98.0%(T) C₅H₁₁N · C₂H₄O₂ = 145.20 [4540-33-4] MFCD06797161
mp 106°C
Beil. 20(2)6



P1008 Potassium tert-Butoxide

25g 100g 500g

>97.0%(T) C₄H₉KO = 112.21 [865-47-4] MFCD00012162
Beil. 1(2)413 F&F 10,323

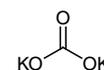


Reagents for Oligosaccharide Synthesis-⑱

P1748 Potassium Carbonate

300g

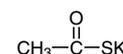
>99.0%(T) $K_2CO_3 = 138.20$ [584-08-7] MFCD00011382
MI14-7619 RTECS TS7750000



T2030 S-Potassium Thioacetate

25g 250g

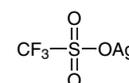
>97.0%(T) $C_2H_3KOS = 114.20$ [10387-40-3] MFCD00083065
Beil. 2,230 F&F 10,325



T1331 Silver Trifluoromethanesulfonate

1g 10g 25g

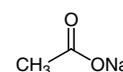
>98.0%(T) $CAgF_3O_3S = 256.93$ [2923-28-6] MFCD00013226
Beil. 3(4)34 F&F 12,435



S0559 Sodium Acetate

300g

>98.5%(T) $C_2H_3NaO_2 = 82.03$ [127-09-3] MFCD00012459
Beil. 2(4)94 MI14-8571 RTECS AJ4300010



S0489 Sodium Azide

100g

>99.0%(T) $NaN_3 = 65.01$ [26628-22-8] MFCD00003536
MI14-8581 RTECS JY8050000

NaN_3

S0480 Sodium Borohydride

25g 100g 500g

>95.0%(T) $NaBH_4 = 37.83$ [16940-66-2] MFCD00003518
MI14-8592 F&F 17,314 RTECS ED3325000

$NaBH_4$

S0396 Sodium Cyanoborohydride [Reducing Agent]

5g 25g 250g

>95.0%(T) $CH_3BNNa = 62.84$ [25895-60-7] MFCD00003516
MI14-8606 F&F 14,286

$NaBH_3CN$

試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

Reagents for Oligosaccharide Synthesis-20

S0481 Sodium Hydride 100g 500g
(60%, dispersion in Paraffin Liquid)

NaH = 24.00 [7646-69-7] MFCD00003471
MI14-8625 F&F 16,307 RTECS WB3910000

NaH

S0486 Sodium Methoxide 100mL 500mL
(ca. 5mol/L in Methanol)

CH₃NaO = 54.02 [124-41-4] MFCD00012179
flp 33°C
MI14-8643 F&F 18,335

CH₃ONa

S0394 Sodium Triacetoxyborohydride 25g 100g

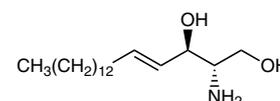
>80.0%(T) C₆H₁₀BNaO₆ = 211.94 [56553-60-7] MFCD00012211
MI14-8695 F&F 13,283

NaBH(OCOCH₃)₃

New S0874 D-Sphingosine

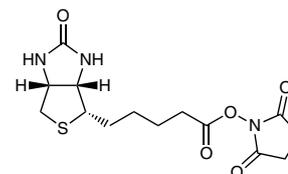
25mg

>96.0%(GC) C₁₈H₃₇NO₂ = 299.50 [123-78-4] MFCD00036751
mp 74°C
MI14-8747



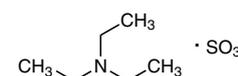
S0491 N-Succinimidyl D-Biotinate 100mg 1g

>97.0%(HPLC)(N) C₁₄H₁₉N₃O₅S = 341.38 [35013-72-0] MFCD00078531
mp 140°C



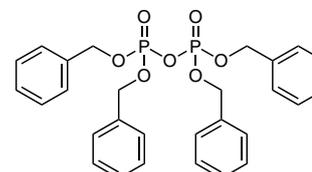
T2136 Sulfur Trioxide - Triethylamine Complex 5g 25g

>96.0%(N) C₆H₁₅N · SO₃ = 181.25 [761-01-3]
mp 93°C



P1223 Tetrabenzyl Pyrophosphate 1g

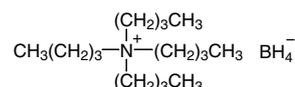
>98.0%(HPLC) C₂₈H₂₈O₇P₂ = 538.47 [990-91-0] MFCD00051941
mp 64°C



T0917 Tetrabutylammonium Borohydride [Reducing Reagent]

5g 25g

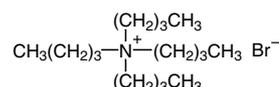
>96.0%(T) C₁₆H₄₀BN = 257.31 [33725-74-5] MFCD00012035
mp 126°C
F&F 10,378



T0054 Tetrabutylammonium Bromide

25g 100g 500g

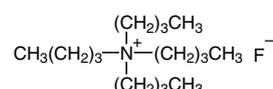
>98.0%(T) C₁₆H₃₆BrN = 322.38 [1643-19-2] MFCD00011633
mp 103°C
F&F 7,353



T1338 Tetrabutylammonium Fluoride (ca. 1mol/L in Tetrahydrofuran)

25mL 100mL 500mL

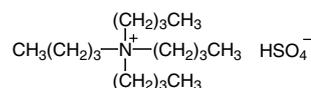
C₁₆H₃₆FN = 261.47 [429-41-4] MFCD00011747
d 0.92 flp -17°C
Beil. 4(4)557 MI14-9187 F&F 12,458



T0835 Tetrabutylammonium Hydrogen Sulfate

25g 100g 500g

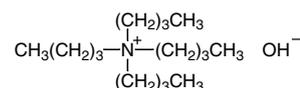
>98.0%(T) C₁₆H₃₇NO₄S = 339.54 [32503-27-8] MFCD00011637
mp 173°C
F&F 7,354



T1685 Tetrabutylammonium Hydroxide (40% in Water)

25g 100g 500g

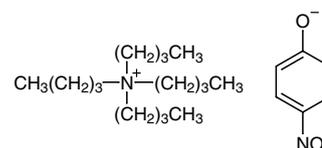
C₁₆H₃₇NO = 259.48 [2052-49-5] MFCD00009425
d 1.00
Beil. 4(2)634 F&F 11,500 RTECS BS5425000



T2669 Tetrabutylammonium p-Nitrophenoxide

5g 25g

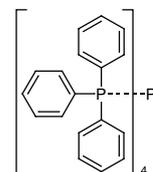
>98.0%(HPLC)(T) C₂₂H₄₀N₂O₃ = 380.57 [3002-48-0]
mp 145°C



T1350 Tetrakis(triphenylphosphine)- palladium(0)

1g 5g 25g

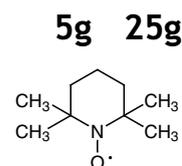
>97.0%(T) C₇₂H₆₀P₄Pd = 1155.59 [14221-01-3] MFCD00010012
Beil. 16(4)954 F&F 12,468



Reagents for Oligosaccharide Synthesis-22

T1560 2,2,6,6-Tetramethylpiperidine 1-Oxyl Free Radical

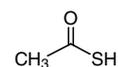
>98.0%(GC)(T) $C_9H_{18}NO = 156.25$ [2564-83-2] MFCD00009599
MI14-9140 F&F 14,302 RTECS TN8991900



T0189 Thioacetic Acid

>95.0%(GC) $C_2H_4OS = 76.11$ [507-09-5] MFCD00004853
bp 93°C d 1.07 flp 5°C
Beil. 2,230 MI14-9320 F&F 1,1154 RTECS AJ5600000

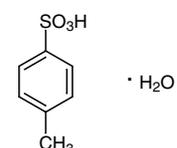
25mL 100mL 500mL



T0267 p-Toluenesulfonic Acid Monohydrate

>98.0%(HPLC)(T) $C_7H_8O_3S \cdot H_2O = 172.20$ (Anh) [6192-52-5] MFCD00064387
mp 106°C
Beil. 11,97 MI14-9533 F&F 9,471 RTECS DB7164000

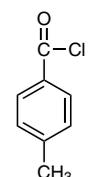
25g 500g



T0311 p-Toluoyl Chloride

>98.0%(GC)(T) $C_8H_7ClO = 154.59$ [874-60-2] MFCD00000696
bp 216°C d 1.17 flp 82°C
Beil. 9,486 RTECS XV1660000

25g 100g 500g



T0372 Trichloroacetonitrile

>98.0%(GC) $C_2Cl_3N = 144.38$ [545-06-2] MFCD00001842
bp 85°C d 1.43 flp 195°C
Beil. 2,212 MI14-9628 F&F 7,381 RTECS AM2450000

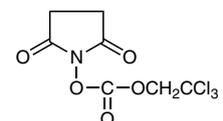
25g 100g 500g



T2713 N-(2,2,2-Trichloroethoxycarbonyloxy)-succinimide

>98.0%(GC)(N) $C_7H_6Cl_3NO_5 = 290.48$ [66065-85-8] MFCD00075216
mp 113°C

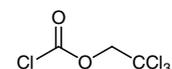
5g



C0795 2,2,2-Trichloroethyl Chloroformate

>98.0%(GC) $C_3H_2Cl_4O_2 = 211.85$ [17341-93-4] MFCD00000810
bp 172°C d 1.58
F&F 7,383

25g 250g

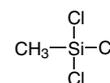


Reagents for Oligosaccharide Synthesis-23

M0450 Trichloro(methyl)silane

25g 100g 500g

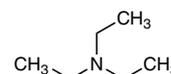
>98.0%(GC)(T) $\text{CH}_3\text{Cl}_3\text{Si}$ = 149.47 [75-79-6] MFCD00000481
 bp 65°C d 1.28 flp -8°C
 Beil. 4(3)1896 RTECS VV4550000



T0424 Triethylamine

25mL 100mL 500mL

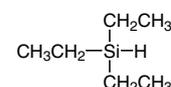
>99.0%(GC)(T) $\text{C}_6\text{H}_{15}\text{N}$ = 101.19 [121-44-8] MFCD00009051
 bp 89°C d 0.73 flp -8°C
 Beil. 4,99 MI14-9666 F&F 9,481 RTECS YE0175000



T0662 Triethylsilane

25mL 250mL

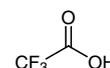
>98.0%(GC) $\text{C}_6\text{H}_{16}\text{Si}$ = 116.28 [617-86-7] MFCD00009018
 bp 108°C d 0.73 flp -3°C
 Beil. 4,625 F&F 5,694



T0431 Trifluoroacetic Acid

25g 100g 500g

>99.0%(T) $\text{C}_2\text{HF}_3\text{O}_2$ = 114.02 [76-05-1] MFCD00004169
 bp 73°C d 1.49
 Beil. 2(4)458 MI14-9681 F&F 9,483 RTECS AJ9625000



T0751 Trifluoromethanesulfonic Acid

10g 25g 250g

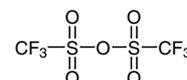
>98.0%(T) $\text{CHF}_3\text{O}_3\text{S}$ = 150.07 [1493-13-6] MFCD00007514
 bp 162°C d 1.71
 Beil. 3(4)34 MI14-9676 F&F 9,485



T1100 Trifluoromethanesulfonic Anhydride

10g 25g 250g

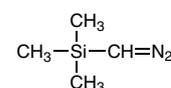
>98.0%(T) $\text{C}_2\text{F}_6\text{O}_5\text{S}_2$ = 282.13 [358-23-6] MFCD00000408
 bp 84°C d 1.72



T1146 Trimethylsilyldiazomethane (ca. 10% in Hexane, ca. 0.6mol/L)

10mL 25mL 100mL

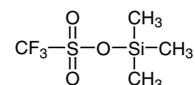
$\text{C}_4\text{H}_{10}\text{N}_2\text{Si}$ = 114.22 [18107-18-1] MFCD00053946



Reagents for Oligosaccharide Synthesis-24

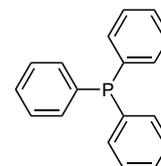
T0871 Trimethylsilyl Trifluoromethanesulfonate 5g 25g 250g
[Trimethylsilylating Agent]

>98.0%(T) $C_4H_9F_3O_3SSi = 222.25$ [27607-77-8] MFCD00000406
bp 140°C d 1.23 flp 25°C
MI14-9719 F&F 10,438



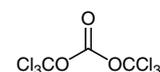
T0519 Triphenylphosphine 25g 100g 500g

>95.0%(T) $C_{18}H_{15}P = 262.29$ [603-35-0] MFCD00003043
mp 81°C
Beil. 16,759 MI14-9743 F&F 7,403 RTECS SZ3500000



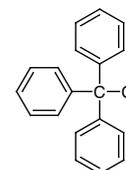
T1467 Triphosgene 25g 250g

>98.0%(T) $C_3Cl_6O_3 = 296.73$ [32315-10-9] MFCD00062848
mp 80°C bp 206°C
Beil. 3(4)33



C0308 Trityl Chloride 25g 100g 500g

>98.0%(T) $C_{19}H_{15}Cl = 278.78$ [76-83-5] MFCD00000813
mp 113°C
Beil. 5(3)2315 F&F 6,656 RTECS PA6450000



Z0015 Zinc (Powder) 300g

>96.0%(T) $Zn = 65.38$ [7440-66-6] MFCD00011291
MI14-10127 RTECS ZG8600000

Zn

Z0013 Zinc Bromide 25g 300g

>98.0%(T) $ZnBr_2 = 225.19$ [7699-45-8] MFCD00011294
MI14-1029 RTECS ZH1150000

ZnBr₂

Z0014 Zinc Chloride 25g 300g

>98.0%(T) $ZnCl_2 = 136.28$ [7646-85-7] MFCD00011295
MI14-10132 RTECS ZH1400000

ZnCl₂

The Industrial Production of Oligosaccharides by TCI TCIの実用化を指向した工業的糖鎖製造

New

Since the relationship between sugar chains and their life phenomena has been elucidated, the practical uses of functional oligosaccharides become more important. However, it is not easy to obtain sufficient amount of oligosaccharides in high purity because of limited quantities and heterogeneity of naturally occurring oligosaccharides.

We established the manufacturing process of "sugar building blocks" which are key intermediates for oligosaccharides synthesis (Fig. 1), and by using these sugar building blocks as the starting materials, the number of processes of oligosaccharide synthesis can be reduced. Then we have achieved the large scale synthesis of a variety of biofunctional oligosaccharides such as *N*- and *O*-glycans of glycoproteins, Globo-H and sLe^x which are cancer antigens, and glycosaminoglycan oligomers which are concerned with iPS cells or the nervous system (Fig. 2). These oligosaccharides have well-defined structures, and can be introduced with functional groups such as the azido group, carboxyl group, or biotin at the reducing terminal for use as powerful tools for research into glycoscience.

糖鎖の様々な生命現象への関与が解明され、基礎研究から実用化に向けた展開への重要性が増しています。このような糖鎖ですが、少量しか存在しない、また多様な構造を持つことから、単一で大量に得ることは容易ではありません。

TCIではこれまでのノウハウを生かし実用化に向けた糖鎖の製造に挑戦し、大幅に工程が短縮される鍵中間体（糖鎖ブロック）の大量合成法を確立してその生産体制を構築しています（図1）。そこから量産された糖鎖ブロックは組み合わせて利用し、有用な機能性糖鎖へと誘導しています（図2）。タンパク質上に存在し様々な生命現象にかかわる*N*-Link糖鎖及び*O*-Link糖鎖、Globo-HやsLe^x等のがん関連糖鎖、血液型糖鎖、iPS細胞や神経系で重要な役割を果たすグルコサミノグリカン等、グラム〜キログラムスケールでの製造が可能です。各糖鎖は明確な構造を持ち還元末端のアグリコンをアジド基やカルボキシル基、ビオチン基等の様々な官能基に修飾が可能です。糖鎖の研究開発の有用なツールとして応用いただけます。TCIの合成糖鎖を是非ご利用ください。

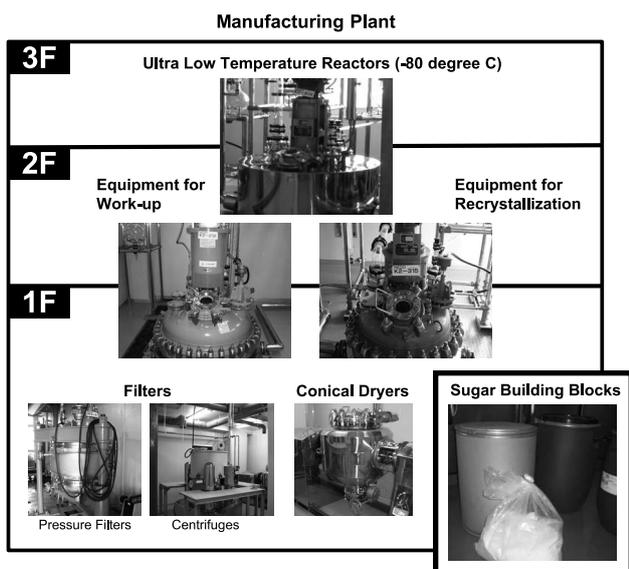


Fig. 1 Production system of TCI

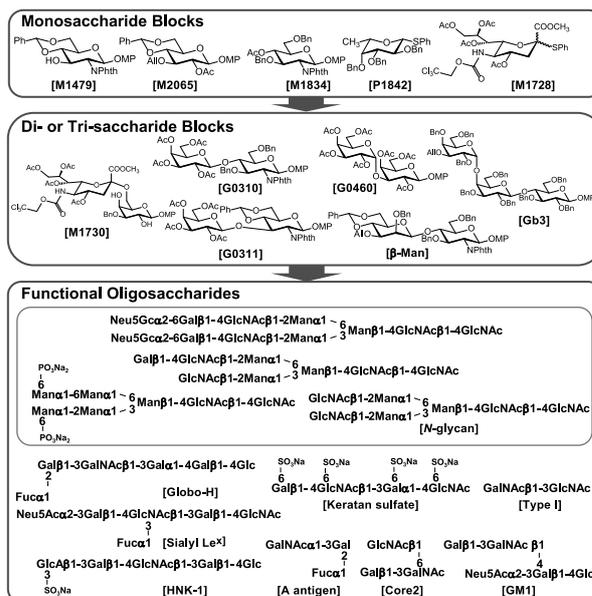


Fig. 2 TCI's oligosaccharides

New

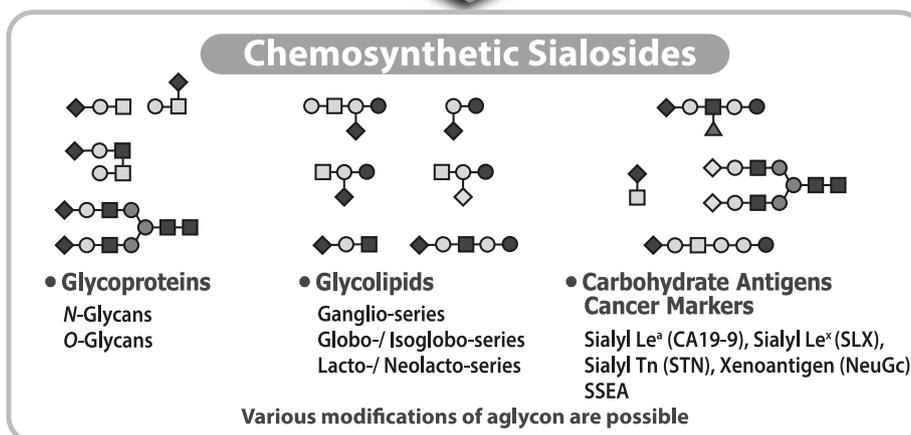
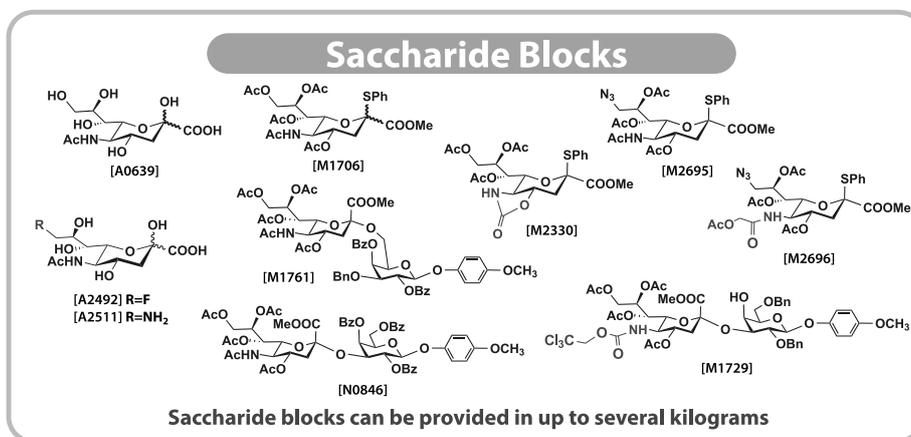
Chemosynthesis of Sialoside シアロ糖鎖の化学合成

Sialic acid locates the terminal of sugar chains in glycoproteins, glycolipids, and milk oligosaccharides. Also, sialosides are associated with cell-cell interaction, cell differentiation, and infection of bacteria or viruses. For example, in influenza infections, hemagglutinin on the virus surface links to sialic acid, and the infectious process begins. Also, cancer markers such as CA19-9 (sialyl Le^a), SLX (sialyl Le^x), STN (sialyl Tn) are carbohydrate antigens that have sialic acid, and are used in cancer diagnosis. However, since the complex sialo-oligosaccharides are obtained in limited quantity from natural sources, for the sake of research promotion, sugar chains of sufficient amount are required. TCI has developed the manufacturing procedure of functional oligosaccharides to supply a variety of sialosides.

In TCI, kilogram scaled glycosidation of sialic acid is carried out using thioglycoside as the glycosyl donor. Sialic acid and sialyl α (2-3/6) galactose are used as the sugar building blocks for complex sialo-oligosaccharide synthesis. We can prepare the various oligosaccharides having not only *N*-acetyl neuraminic acid but also *N*-glycolyl neuraminic acid which does not exist in normal human cells. Chemically synthesized sialo-oligosaccharides having ceramide (ganglioside) and other kind of aglycons such as *p*-nitrophenyl and aminoalkyl group are prepared. TCI synthesizes a wide range of sugar chains for your daily research. Please feel free to contact us.

シアル酸は糖タンパク質、糖脂質、ミルクオリゴ糖の糖鎖の末端に存在し、細胞間の認識、細胞の分化、細菌やウイルスの感染に関わっていることが明らかになってきました。たとえば、インフルエンザの感染ではウイルス表面にあるヘマグルチニンがシアル酸と結合して感染プロセスが始まります。またCA19-9 (sialyl Le^a), SLX (sialyl Le^x), STN (sialyl Tn)といった腫瘍マーカーはシアル酸を有する糖鎖抗原であり、がんの診断に使われています。しかしながら複雑なシアル酸含有糖鎖は天然にはごくわずかしか存在していないため、その研究の推進のためには十分な量の糖鎖が必要となります。TCIでは化学合成を中心とした機能的糖鎖の大量製造法を開発し、さまざまなシアル酸含有糖鎖を供給できるようになりました。

TCIではチオグリコシド誘導体をシアル酸供与体として、kgスケールでのシアル酸のグリコシド化を達成しています。シアル酸誘導体やシアリル α (2-3/6)ガラクトース誘導体は保護基の変換により、ビルディングブロックとして複雑なシアロ糖鎖の合成に使用することができます。シアル酸部分も通常の*N*-アセチル型のほか通常ヒトには存在しない*N*-グリコリル型を有する糖鎖にも対応し、さらにガングリオシドにみられるセラミドのほか、*p*NP基やアミノアルキル基などのアグリコン部分を導入したシアロ糖鎖もラインアップしています。製品カタログにないシアロ糖鎖についても対応致しますので、是非お問い合わせください。



Chemicals itemized in our catalog are for testing or research purpose only. Therefore, please note those chemicals are not guaranteed in the user's favor relating to various problems under the Patent Law that might occur through their use.

Applications for Sugar-conjugates 糖鎖コンジュゲートへの応用

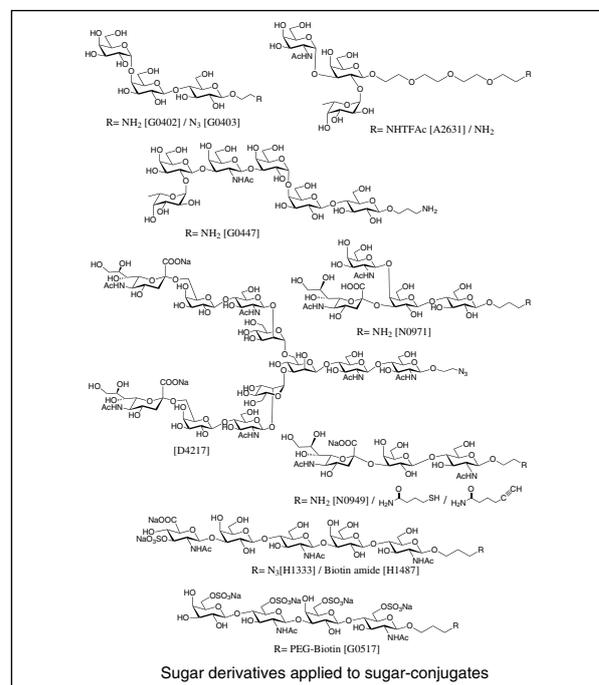
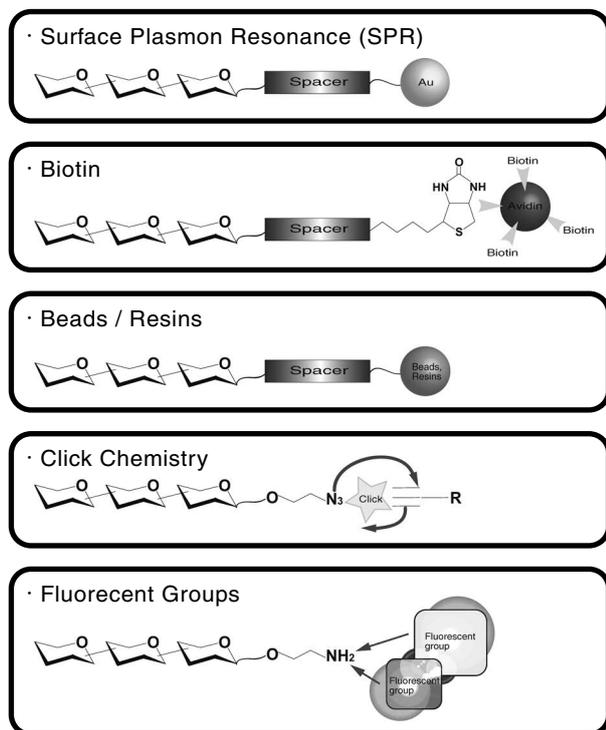
Through the research in carbohydrate field, various biological functions of oligosaccharides have been elucidated in life phenomena such as infection, cell-cell recognition, information transmission, fertilization and cell division. The materials containing sugar chains are expected as new functional bioengineering materials which can be applied to medical materials, for example biosensors which specifically bind to toxins or pathogens, composite materials used for surface plasmon resonance (SPR) or crystal oscillator (QCM), or affinity chromatography for the purification of various biopolymers.

Sugar chains having a thiol group, carboxyl group, amino group or azido group at the reducing terminal can be applied to immobilization onto resin beads and gold substrates, introduction of fluorescent groups or biotin, or the use of click chemistry as shown below. Sugar-conjugates are expected as important tools for new bioengineering building materials. Please make use of TCI's functional oligosaccharides.

近年の糖鎖機能解明に向けた研究により、感染、細胞間認識、情報伝達、受精、細胞分裂に関わる役割など、生命現象における糖鎖の新たな機能が解明されてきています。このような糖鎖を効果的に利用することで、新しい機能を持たせた生命工学分材料が構築できると期待されています。

例えば、病原体や毒素に特異的に結合する機能性糖鎖をビーズやナノ粒子等の固相担体に固定化することによりバイオセンサーなど医療材料への応用が可能と考えられます。固定化担体に金基板、金粒子を用いれば表面プラズモン共鳴 (SPR)、水晶振動子 (QCM) を利用することができるなど、生体認識性を持った複合材料とすることができます。また、機能性糖鎖をクロマトグラフィー担体に固定化することでアフィニティークロマトグラフィーとして様々な生体高分子の分離・精製に応用することも可能となります。その他、DDSや蛍光分析などにも利用可能と考えられます。

還元末端にチオール基、カルボキシル基、アミノ基やアジド基を有する糖鎖は、その官能基の性質を利用して金基板や樹脂・ビーズへの固定化、ビオチンや蛍光基の導入、クリックケミストリーの利用など、以下のような応用が可能新たな生命工学分材料構築のツールとして期待されます。図にはTCIの製品の一例を示しました。R部位は様々な官能基に修飾可能です。その他の糖鎖にも対応していますので、お問い合わせください。



N-Glycan / Labeled N-Glycan based on Chemical Synthesis-①

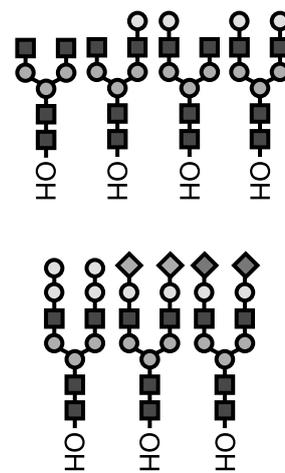
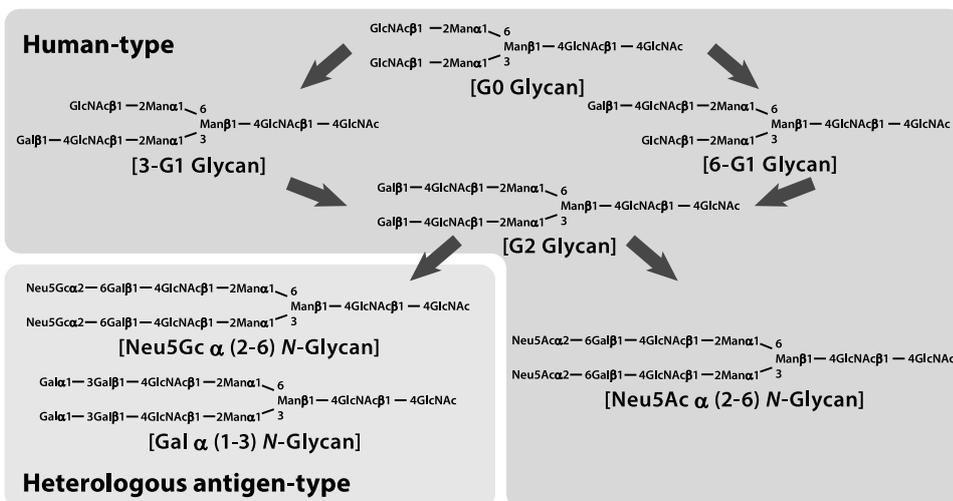
New

N-Glycan / Labeled N-Glycan based on Chemical Synthesis 化学合成技術を基盤としたN型糖鎖・標識化N型糖鎖

N-Glycan

Our chemical synthesis of oligosaccharide using various sugar building blocks provides various structure-defined N-glycans such as human type glycans (G0, G2 and SG), uniform isomer (each 3-G1 and 6-G1) and heterogenic antigen (including α Gal or NeuGc).

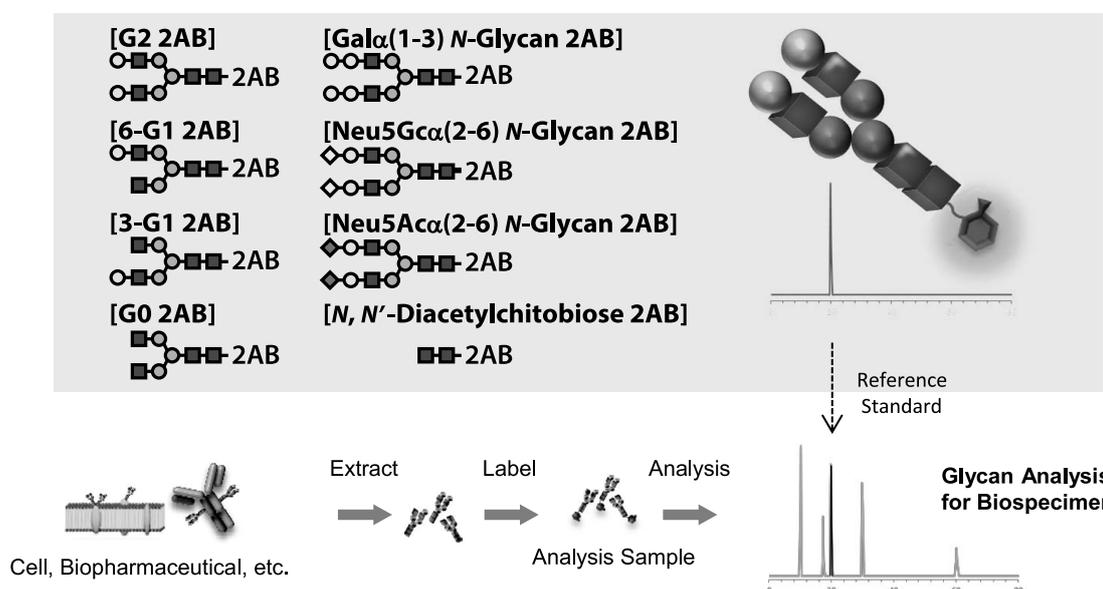
糖鎖ブロックを用いた系統的な化学合成技術により、位置異性体を作り分けた異性体の混在がない均一糖鎖 (3-G1 and 6-G1)、非ヒト型の異種抗原 (α Gal or NeuGc) を含む糖鎖など構造が明確なN型糖鎖をご提供します。



Labeled N-Glycan

We produce high grade 2-AB labeled N-glycans. Please take advantage of our fluorescent-labeled product portfolio as a standard glycan for MS, CE and HPLC analyses.

化学合成を基盤とした各種糖鎖を2-ABで標識化した高純度品です。蛍光検出による高感度分析用標品や基準試料として、MS、キャピラリー電気泳動やHPLCの分析標品などにお役立て下さい。



The chemical, physical and toxicological properties of the new chemicals have not been thoroughly investigated. Please handle with care.

N-Glycan / Labeled N-Glycan based on Chemical Synthesis-②

Applications

Glycans analyses for glycoscience and medicine development

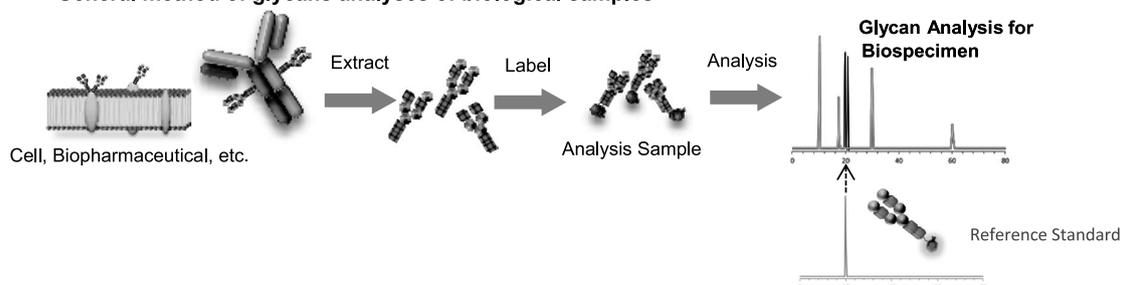
- Standard for HPLC, CE and MS analyses
- Qualitative analyses of *N*-glycans on the cell surface and on Fc region of antibodies

用途

糖鎖科学研究・医薬品開発における糖鎖解析

- ・ MS, キャピラリー電気泳動, HPLC分析などの標品
- ・ 抗体や細胞表面に発現している*N*型糖鎖の定性分析

General method of glycans analyses of biological samples



N-Glycans on the cell surface relate to various types of physiological functions such as cancer metastasis, infectious disease, aging of living organisms, etc. Since there is a lot of analytical knowledge of *N*-glycans, comparative analyses between reference standards and labeled *N*-glycans released from biological samples and biopharmaceuticals are widely used by HPLC, CE and MS analyses.

細胞上の糖鎖は生物の生理機能に深く関与すると考えられ、がんや感染症および老化など生体の恒常性との相関が示唆されています。糖タンパク質の*N*型糖鎖については分析の知見が多く、生体試料やバイオ医薬品から遊離した*N*型糖鎖を標識化してMS, キャピラリー電気泳動, HPLCなどにより標品と比較する方法が広く用いられています。

Features

The unique products on the organic synthesis technology

- Separately-created uniform isomers (3-G1 and 6-G1) by chemical synthesis
- Various *N*-glycans including heterologous antigens
- Purity > 95% with HPLC
- Structure determination with NMR and MS analyses

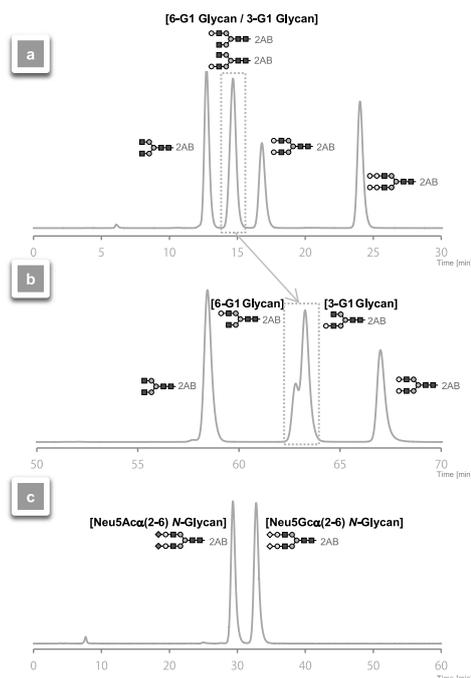
特徴

有機合成技術を基盤とした製法によるユニークなラインナップ

- ・ 有機合成技術によって位置異性体を作り分けているため、抽出品を精製した製品とは違って異性体の混在がない。
- ・ 非ヒト型の異種抗原を含む*N*型糖鎖をラインナップ。
- ・ HPLCにおける純度95%以上。
- ・ NMR, MS分析による構造確認。

Example of use of labeled glycans

HPLC analyses of uniform isomer ([6-G1 2AB]/[3-G1 2AB]) and heterogenic antigen ([Gal α (1-3) *N*-glycan 2AB]/[Neu5Gc α (2-6) *N*-glycan 2AB]) provided by organic synthesis



[Column] Asahipak NH2P-50 4E (Φ4.6×250 mm)

[Detection] FL (Ex: 330 nm, Em: 420 nm)

[Inject] 5 μ L (10 μ g/mL except for 5 μ g/mL of 6-G1 2AB)

[Flow rate] 0.5 mL/min

[Temp.] 40°C

[Solvent] A : Acetonitrile

B : 50 mM Ammonium formate (pH4.4)

[Condition]

- | | |
|--------------|-----------------------|
| (A) 0~10 min | B: 40% |
| 10~30 min | B: 40% (gradient)→50% |
| (B) 0~20 min | B: 20% |
| 20~60 min | B: 20% (gradient)→40% |
| 60~80 min | B: 20% |
| (C) 0~60 min | B: 100% |

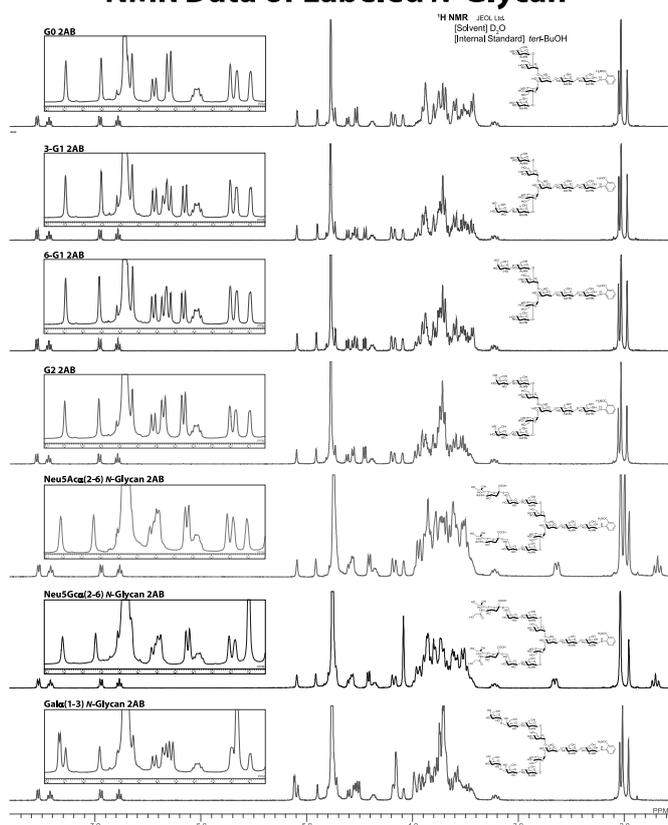
(A) The labeled neutral *N*-glycan mixture was individually separated based on the distinctive features of glycan structure. (However, each G1 isomer was not separated.)

(B) Each G1 isomer; 6-G1 and 3-G1, is modestly detached in this condition.

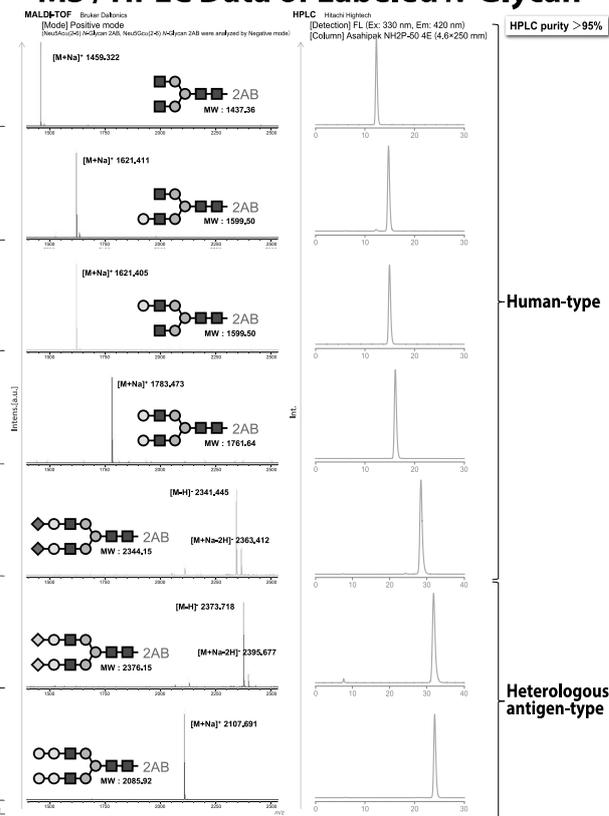
(C) The acidic *N*-glycan; Heterologous antigen-type Neu5Gc α (2-6) *N*-Glycan was completely separated from Neu5Ac α (2-6) *N*-Glycan due to the minimal difference of sialic acid.

多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用は避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

NMR Data of Labeled N-Glycan

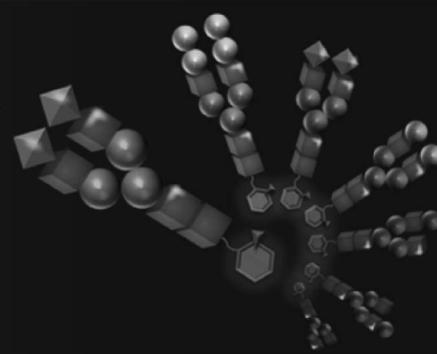
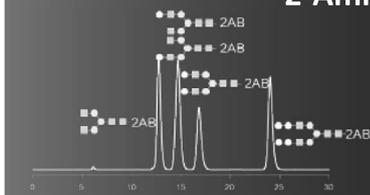


MS / HPLC Data of Labeled N-Glycan



Labeled N-Glycans based on Chemical Synthesis

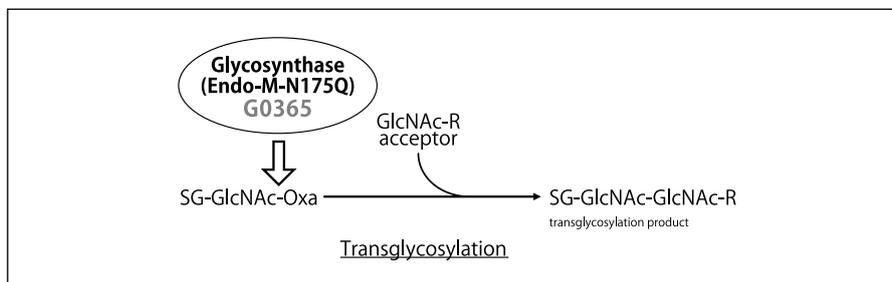
2-Aminobenzamide (2-AB) label



A part of the products was commercialized by support from the projects of New Energy and Industrial Technology Development Organization (NEDO) and the Japan Agency for Medical Research and Development (AMED) implementation of manufacturing technology association of biologics.

Glycosynthase (Endo-M-N175Q)-①

An Enzyme That Adds Whole Sugar Chains without Breaking Down Products 糖鎖を丸ごと付加し，生成物を分解しない酵素 —Endo-M-N175Q—



G0365 Glycosynthase (Endo-M-N175Q) is an enzyme developed by Yamamoto, Umekawa, *et al.* through site-directed mutation of areas around the active center of **A1651** Endo-M¹⁾ which is already marketed. Since the feature of Glycosynthase is efficient transglycosylation activity by using oxazoline derivatives as glycosyl donors while suppressing sugar hydrolysis activity, the resulting glycosylated products are obtained in high yield with less digestion of the products by the enzyme. Due to this feature Glycosynthase is expected to be applied as useful tool in glycotecchnology.

Umekawa and her colleagues caused transglycosylation reactions at the GlcNAc site of sperm antigen CD52 using oxazoline derivatives of the high-mannose type sugar chains or the complex type sugar chains as glycosyl donors²⁾. They succeeded in obtaining glycosylated products in high yield of 84% and 76%, respectively. Moreover, they also achieved transglycosylation reactions using two biologically active blood-pressure-lowering peptides, PAMP12 and Substance P, as glycosyl acceptors and the oxazoline derivative of a complex type sugar chain containing sialic acids as a glycosyl donor in 95% and 98% yield, respectively³⁾ (Fig. 2). The articles in 2009 describe the advantages of this glycosylation method using sugar-oxazoline derivatives⁴⁻⁵⁾.

Practical realization of efficient transglycosylation reactions would also be useful for expansion into glycoprotein synthesis, such as the area of biosimilars, and creation of new functional sugar complexes can be expected.

G0365 グライコシンターゼ (Endo-M-N175Q) は山本・梅川らによって開発され、TCIで先に販売している **A1651** Endo-M¹⁾ の活性中心付近を部位特異的に変異させた酵素です。この酵素は糖供与体としてオキサゾリン体を用いることによって糖鎖を効率よく付加転移させる一方で、糖加水分解活性が抑制されている特長を持っています。このため糖転移生成物は酵素によって分解されにくく、生成物を高収率で得ることができます。この特長によって本酵素は糖鎖工学の有用なツールとして応用が期待されています。

梅川らは精子抗原CD52のGlcNAc部分に高マンノース型糖鎖のオキサゾリン体または複合型糖鎖のオキサゾリン体を糖供与体として糖転移反応を行い、それぞれ84%、76%と高い転移率で糖転移生成物を得ることに成功しました²⁾。また血圧降下作用を持つ2つの生理活性ペプチドPAMP12と Substance Pを受容体とし、シアロ複合糖鎖のオキサゾリン体を糖供与体とした糖転移反応においてもそれぞれ95%、98%の高い転移率を示しています (Fig. 2)³⁾。2009年の論文ではこの糖-オキサゾリン体を用いた糖鎖合成反応の優位性が報告されています⁴⁻⁵⁾。

効率の良い糖転移反応の実用化はバイオシミラーなどの糖タンパク質合成への展開にも有効であり、新しい機能性糖鎖複合体の創製が期待されます。

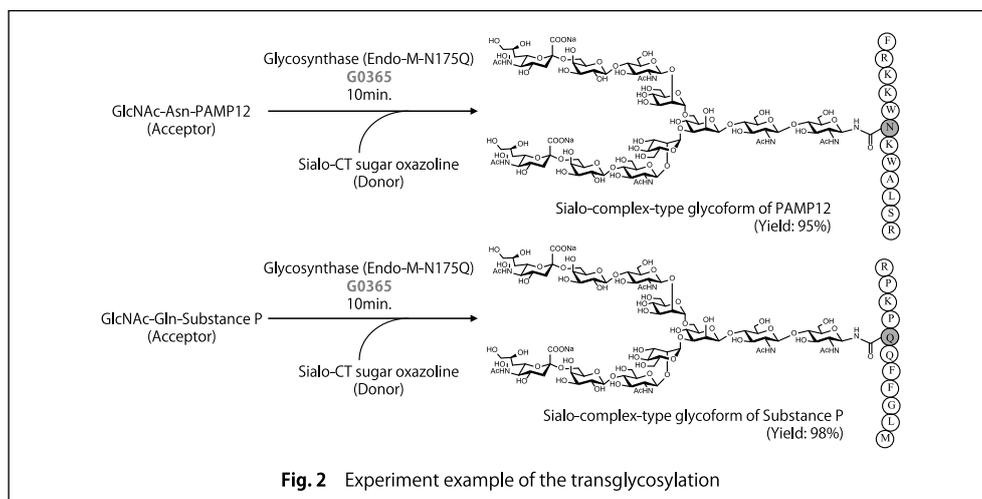


Fig. 2 Experiment example of the transglycosylation

- References
- 1) K. Yamamoto, S. Kadowaki, J. Watanabe, H. Kumagai, *Biochem. Biophys. Res. Commun.* **1994**, *203*, 244.
 - 2) M. Umekawa, C. Li, T. Higashiyama, W. Huang, H. Ashida, K. Yamamoto, L.-X. Wang, *J. Biol. Chem.* **2010**, *285*, 511.
 - 3) M. Umekawa, T. Higashiyama, T. Tanaka, M. Noguchi, A. Kobayashi, S. Shoda, W. Huang, L.-X. Wang, H. Ashida, K. Yamamoto, *Biochimica et Biophysica Acta* **2010**, *1800*, 1203.
 - 4) P. Bojarova, V. Kren, *Trends in Biotechnology* **2001**, *92*, 493.
 - 5) J. R. Rich, S. G. Withers, *Nature Chemical Biology* **2009**, *5*, 206.

多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用はお避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

A set of the transglycosylation data using a glycosynthase (Endo-M-N175Q) is shown below (Fig. 3).

The oxazoline derivative of a complex type sugar as a glycosyl donor was transglycosylated with GlcNAc- β -pNP as a glycosyl acceptor, and the glycosylated product was afforded in a high yield of 95% after 24 hours.

The sustained and effective production of the glycosylated compound was identified from HPLC profiles and MALDI-TOF MS as shown below (Fig. 4 and 5).

G0365 グライコシンターゼ(Endo-M-N175Q)の糖転移反応の例をご紹介します。シアロ複合型糖鎖オキサゾリン体を糖供与体、**N0866** GlcNAc- β -pNPを受容体とした糖転移反応を行ったところ、24時間後に95%という高い転移率で生成物が確認されています。以下その反応スキーム(Fig. 3)とHPLCによる反応追跡、生成物のMALDI-TOF-MSを示します(Fig. 4,5)。これらの結果をみるとオキサゾリン体から持続的かつ効率的に糖転移反応物が得られていることがわかります。

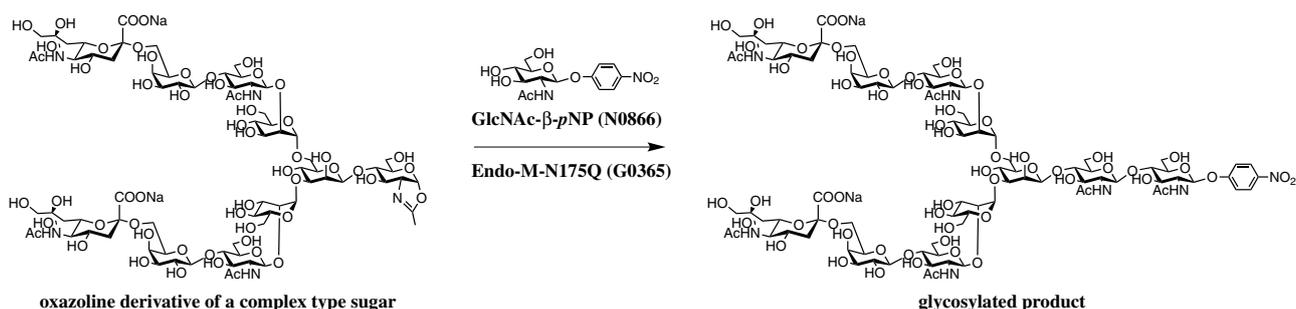


Fig. 3 Transglycosylation of oxazoline derivative and GlcNAc- β -pNP

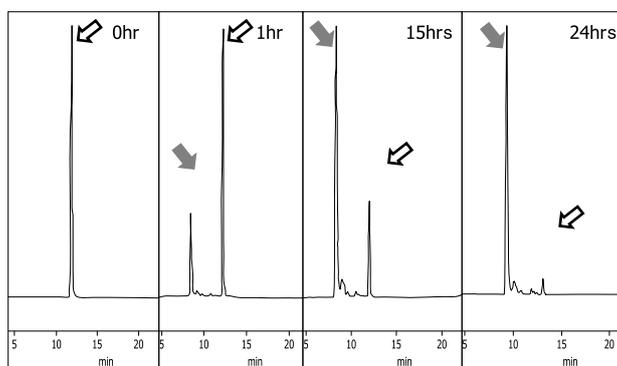


Fig. 4 HPLC profiles of transglycosylation reaction. HPLC: ODS, CH₃CN / H₂O, UV 260nm
 \Rightarrow : GlcNAc- β -pNP \Rightarrow : glycosylated product

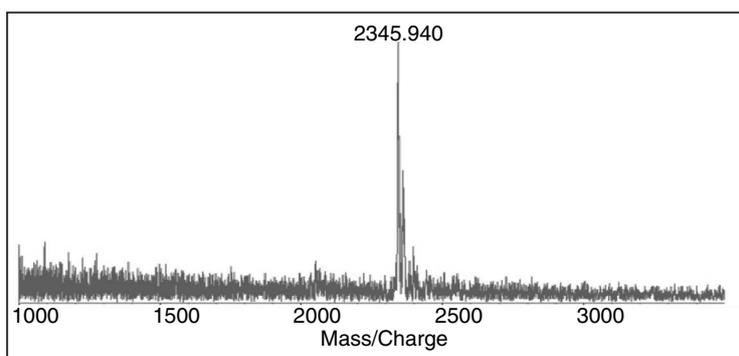
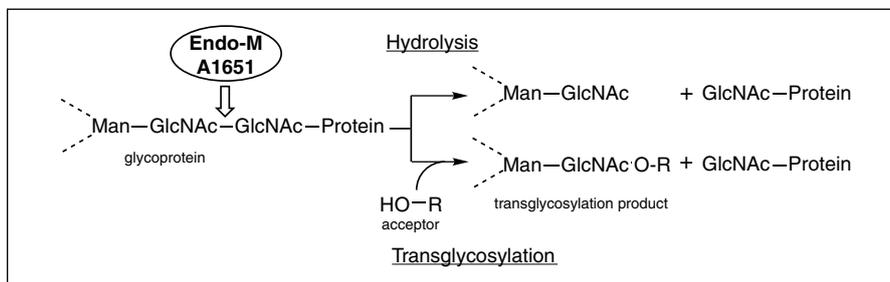


Fig. 5 MALDI-TOF MS spectrum of transglycosylated product.

An Enzyme Transfers the Intact Oligosaccharides

糖鎖を丸ごと付加する酵素

—Endo-M—



A1651 Endo-M is one of the enzymes called endo- β -*N*-acetylglucosaminidases (endo- β -GlcNAc-ases). This enzyme was found by Yamamoto *et al.*, in the culture fluid of *Mucor hiemalis* isolated from soil¹⁾. Endo-M hydrolyzes *N,N*-diacetylchitobiose moiety in oligosaccharides bound to the asparaginy residue of various glycoproteins through *N*-glycosidic linkage. The efficacy of this enzyme comes from the fact that one *N*-acetylglucosamine residue remains bound to the protein while cleaving the *N,N*-diacetylchitobiose moiety. The enzyme is thus able to transfer the intact oligosaccharide to suitable acceptors (Fig.1).

Haneda *et al.* have transferred oligosaccharides to 9-fluorenylmethoxycarbonyl-asparaginy-*N*-acetylglucosaminide [Fmoc-Asn(GlcNAc)] by incubating sialotransferrin glycopeptide, asialotransferrin glycopeptide and Man₆GlcNAc₂-Asn-peptide with Endo-M²⁾. Furthermore, synthetic hCG (β 12-16)-GlcNAc-peptide has been subjected to transglycosylate of sialo complex type oligosaccharide. An alternative synthetic method of peptide containing GlcNAc has been developed by Inazu *et al.*³⁾. This method uses Fmoc-Asn(GlcNAc), which is synthesized from *N*-Fmoc aspartic acid (Fmoc-Asp-OH) and azide of GlcNAc, instead of Fmoc-Asn-OH, and it is applied to a mixed acid anhydride method using dimethylphosphothioic acid (Mpt-MA) which generally shows poor responses toward hydroxyl group. By combining this method with Endo-M, many glycopeptides can be designed and easily prepared. Yamamoto has compiled the outline of this methodology as the Chemo-Enzymatic Synthesis in his review⁴⁾. Endo-M can also be used to create new functions, by introducing oligosaccharides, to the substances that originally do not have the oligosaccharide⁵⁾.

Unlike the conventional endo- β -GlcNAc-ase, it has been found that Endo-M is an enzyme with a broad substrate specificity, cleaving not only the high mannose type and hybrid type of asparagine-linked oligosaccharides but also the complex type oligosaccharides in glycoproteins. Especially, the transglycosylation reaction of sialo complex type oligosaccharides was possible only by using Endo-M. Therefore, Endo-M is expected to be applied to various fields.

A1651 Endo-Mは、山本らが糸状菌*Mucor hiemalis*の培養液より見出したエンド- β -*N*-アセチルグルコサミニダーゼで、糖タンパク質のアスパラギン結合糖鎖のジアセチルキトビオース結合を加水分解し、タンパク質側に*N*-アセチルグルコサミン1残基を残して糖鎖を遊離させます。その際、適当な受容体が存在すると遊離した糖鎖がその受容体に転移します¹⁾。

羽田ら²⁾はシアロトランスフェリン糖ペプチド、アシアロトランスフェリン糖ペプチド、高マンノース型糖鎖を有するペプチドにEndo-Mを作用させ、9-フルオレニルメトキシカルボニルアスパラギニル-*N*-アセチルグルコサミン (Fmoc-Asn(GlcNAc)) に糖鎖を転移させています。また、稲津らの開発した方法によりヒト絨毛性腺刺激ホルモン (hCG) の部分ペプチドhCG(β 12-16)にGlcNAcを導入したペプチドを合成し、これにシアロ複合型糖鎖を転移させています。稲津ら³⁾の開発した方法は、アミノ基をFmocで保護したアスパラギン酸とGlcNAcのアジドから合成されるFmoc-Asn(GlcNAc)をFmoc-Asn-OHの代わりに使用し、ジメチルチオホスフィン酸混合酸無水物 (Mpt-MA) 法を用いるもので、GlcNAcを有する人工ペプチドの簡便な合成法といえます。この方法とEndo-Mを組み合わせることで、糖鎖ペプチドを自由に設計し、調製することができます。この方法は、化学-酵素合成法として、山本の総説にまとめられています⁴⁾。また、Endo-Mは、本来糖鎖を持たない物質に糖鎖を導入し、新たな機能の発現にも利用されています⁵⁾。

Endo-Mは、従来から知られているEndo- β -GlcNAc-aseと異なり、高マンノース型糖鎖、混成型糖鎖のみならず複合型糖鎖にも作用する基質特異性の広い酵素で、適当な受容体に糖鎖を転移させることができることから多方面での応用が期待されています。

This Endo-M was merchandised as the fruition of NEDO project under licenses from patent-holding companies of Takara Bio Inc. and Kirin Brewery Co., LTD.

本酵素は、タカラバイオ株式会社、麒麟麦酒株式会社の所有の特許を利用し、NEDO プロジェクトの成果として製品化しました。

- References
- 1) S. Kadowaki, K. Yamamoto, M. Fujisaki, K. Izumi, T. Tochikura, T. Yokoyama, *Agric. Biol. Chem.* **1990**, *54*, 97; K. Yamamoto, S. Kadowaki, J. Watanabe, H. Kumagai, *Biochem. Biophys. Res. Commun.* **1994**, *203*, 244.
 - 2) K. Haneda, T. Inazu, K. Yamamoto, H. Kumagai, Y. Nakahara, A. Kobata, *Carbohydr. Res.* **1996**, *292*, 61.
 - 3) M. Mizuno, I. Muramoto, T. Kawakami, M. Seike, S. Aimoto, K. Haneda, T. Inazu, *Tetrahedron Lett.* **1998**, *39*, 55.
 - 4) K. Yamamoto, *J. Biosci. Bioeng.* **2001**, *92*, 493.
 - 5) S. Kojima, T. Hasegawa, T. Yonemura, K. Sasaki, K. Yamamoto, Y. Makimura, T. Takahashi, T. Suzuki, Y. Suzuki, K. Kobayashi, *Chem. Commun.* **2003**, 1250.
 - 6) T. Onozawa, J. Kumada, *Trends in Glycoscience and Glycotechnology*, **2003**, *15*, 359.

多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用はお避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

Oligosaccharide Replacement of a Therapeutic Antibody by using Endo-M and Glycosynthase

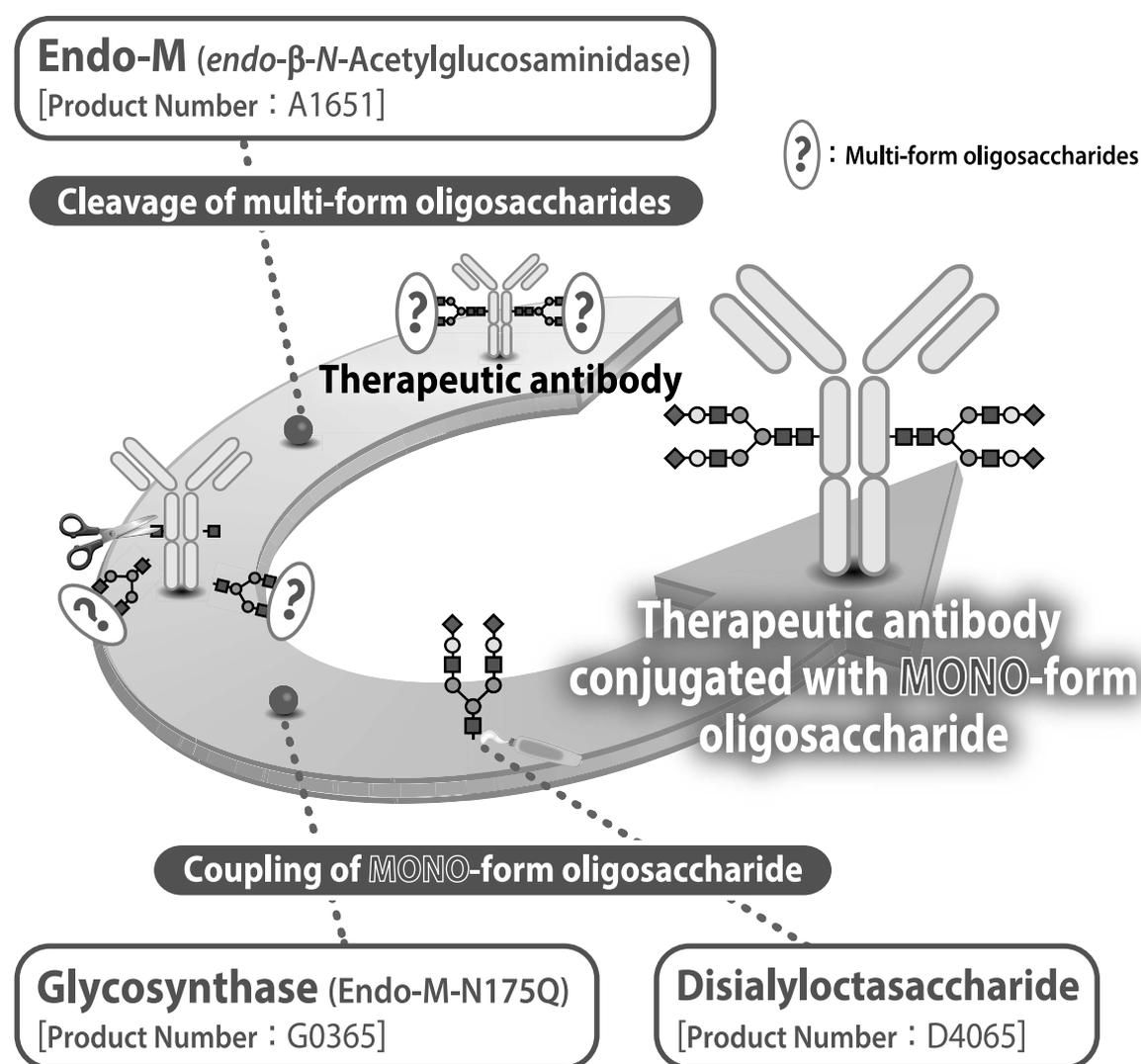
Endo-MとGlycosynthaseを使った抗体医薬への均一糖鎖の転移

In recent years, the expectation of a therapeutic benefit for antibody drugs is growing and the development of industrial technology for antibody production is required. However, heterogeneity of glycosylation of antibody drugs has long been left unsolved.

In this context, TCI achieved introduction of a MONO-form oligosaccharide to a defucosylated therapeutic antibody by using our enzyme products, "Endo-M" and "Glycosynthase".

近年、疾患治療薬としての抗体医薬への期待が高まり、製造技術の進歩が求められていますが、抗体医薬の糖鎖構造の不均一性の問題は長い間解決されていませんでした。

TCIでは、既に試薬製品化しているEndo-MとGlycosynthaseを用い、コアフコースの無い抗体医薬に均一な糖鎖を転移することに成功しました。



References K. Yamamoto, S. Kadowaki, J. Watanabe, H. Kumagai, *Biochem. Biophys. Res. Commun.* **1994**, 203, 244.
M. Umekawa, T. Higashiyama, T. Tanaka, M. Noguchi, A. Kobayashi, S. Shoda, W. Huang, L-X. Wang, H. Ashida, K. Yamamoto, *Biochim. Biophys. Acta, Gen. Subj.* **2010**, 1800, 1203.
M. Umekawa, C. Li, T. Higashiyama, W. Huang, H. Ashida, K. Yamamoto, L-X. Wang, *J. Biol. Chem.* **2010**, 285, 511.

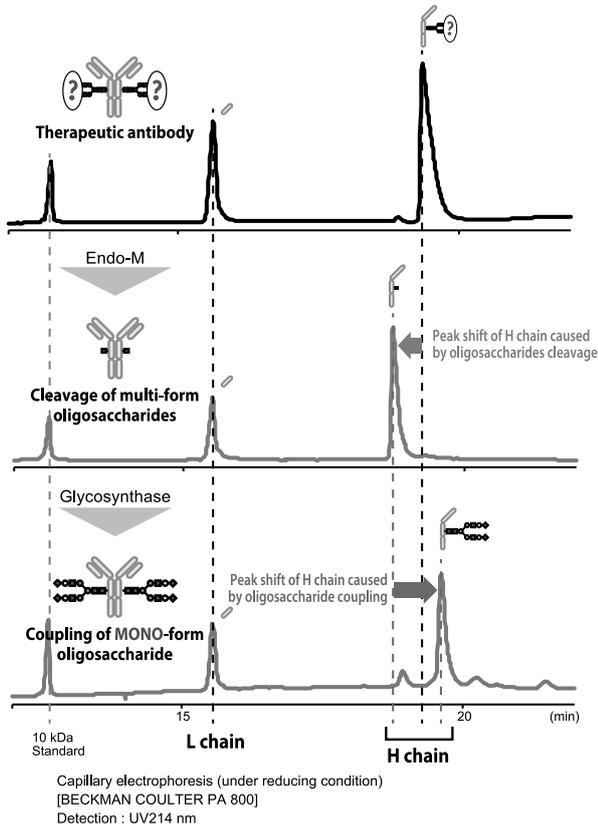
The chemical, physical and toxicological properties of the new chemicals have not been thoroughly investigated.
Please handle with care.

Experimental Example

Cleavage of multi-form oligosaccharides by Endo-M and coupling of MONO-form oligosaccharide by Glycosynthase were conducted under non-reducing condition. Verification of enzymatic reaction was performed with capillary electrophoresis (1) and SDS-PAGE (2A). The terminal sialic acid of the chemoenzymatically-transferred N-linked oligosaccharide to the therapeutic antibody was detected by lectin blotting using a sialic acid binding lectin (2B).

実験例

Endo-Mによる不均一な糖鎖の切断、Glycosynthaseによる均一なシアリル化N型糖鎖の転移は、非還元条件下で行いました。反応の追跡には還元条件下のキャピラリー電気泳動(1)とSDS-PAGEを用い(2A)、転移後の糖鎖の非還元末端にあるシアリル酸はシアリル酸結合レクチンを用いたレクチンブロット法で確認しました(2B)。



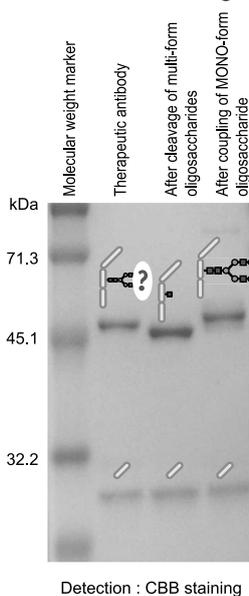
1. Verification of enzymatic reaction

After coupling of a MONO-form oligosaccharide to the Endo-M-treated antibody, a peak shift of the H chain of the therapeutic antibody was observed while a peak shift of L chain was not.

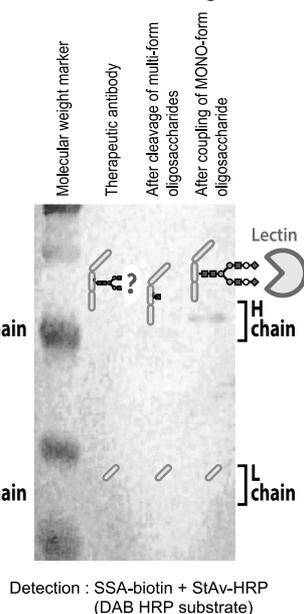
1. キャピラリー電気泳動による各反応の追跡

抗体医薬Aの糖鎖切断後とシアリル化N型糖鎖転移後を比較したところ、L鎖のピークには変化がほとんど見られず、H鎖のピークはシフトしていることが確認できました。

A) SDS_PAGE (15% gel)



B) Lectin blotting



- Mannose
- Galactose
- N-Acetyl glucosamine
- ◆ Sialic acid

2. Detection of sialylated oligosaccharide

A) SDS-PAGE

After coupling of a MONO-form oligosaccharide to the Endo-M-treated antibody, a band shift of the H chain of the therapeutic antibody was observed while a band shift of L chain was not.

B) Lectin blotting

In this study, SSA (*Sambucus sieboldiana* agglutinin) was used. A band of H chain of the therapeutic antibody coupled with MONO-form oligosaccharide was significantly stained.

2. レクチンブロット法によるシアリル酸の検出

A) SDS-PAGE

抗体医薬Aの糖鎖切断後とシアリル化N型糖鎖転移後を比較したところ、L鎖のバンドには変化がほとんど見られず、H鎖のバンドはシフトしていることが確認できました。

B) レクチンブロット法

シアリル酸認識レクチンであるSSA (*Sambucus sieboldiana* agglutinin) を用いました。シアリル化N型糖鎖転移後のH鎖が、強く反応していることが確認できました。

多くの試薬は、その危険性・有害性に関する知見が十分に得られていません。従って、試薬の使用は化学知識を持った専門家に限られ、それ以外の方の使用は避けください。なお、ご使用の際には安全面に十分注意し、開封・保管から廃棄に至るまで責任を持って管理してください。

A1651 endo- β -N-Acetylglucosaminidase (=Endo-M) 1vial
Recombinant: from *Mucor hiemalis* expressed in *Candida boidinii* [Purity: single band by SDS-PAGE(85KDa)]

[37278-88-9] MFCD00151069 EC 3.2.1.96

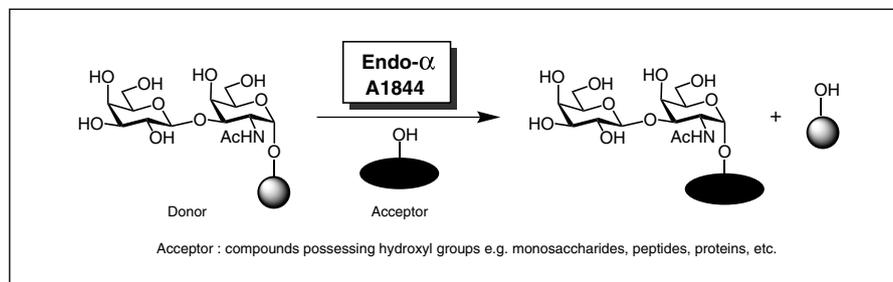
New E1339 Endo-M-W251N Price on request
Recombinant: from *Mucor hiemalis* expressed in *Escherichia coli*

[37278-88-9] MFCD00151069 EC 3.2.1.96

G0365 Glycosynthase (Endo-M-N175Q) 1vial
Recombinant: from *Mucor hiemalis* expressed in *Escherichia coli* (100m units/vial)

[37278-88-9] MFCD00151069 EC 3.2.1.96

An Enzyme Transfers the Intact Oligosaccharides 糖鎖を丸ごと付加する酵素 —Endo- α —



Yamamoto *et al.* have purified and isolated **A1844** endo- α -*N*-acetylgalactosaminidase (Endo- α) found in the culture fluid of *Bifidobacterium longum*¹⁾. Endo- α can recognize the structure of the Gal β 1-3GalNAc disaccharide α -linked with a hydroxyl group. It releases Gal β 1-3GalNAc by hydrolysis. When a compound possessing a hydroxyl group coexists as an acceptor, the released Gal β 1-3GalNAc is transferred to the acceptor²⁾.

Discovered by Yamamoto *et al.*, Endo- α can transfer Gal β 1-3GalNAc to various compounds such as monosaccharides, peptides, and proteins, using core 1 contained in mucin-type oligosaccharide chains as a donor. As a tool for the enzymatic synthesis of glycoconjugates, it is expected that many applications for Endo- α will be found in a wide range of fields.

山本らは乳酸菌(*Bifidobacterium longum*)を培養し、その培養液中に**A1844** エンド- α -*N*-アセチルガラクトサミニダーゼ (Endo- α)の存在を見出し、精製単離しています¹⁾。このEndo- α は、Gal β 1-3GalNAcの二糖が水酸基と α 結合した構造を認識し、この結合を加水分解によりGal β 1-3GalNAcを遊離させます。その際、水酸基を有する化合物を受容体として共存させると遊離したGal β 1-3GalNAcがその受容体に転移します²⁾。

この山本らの見出したEndo- α は、ムチン型糖鎖に含まれるコア1をドナーとして、糖やペプチド・蛋白など幅広い化合物にGal β 1-3GalNAcを転移させることができ、酵素法による複合糖鎖合成のツールとして多方面での応用が期待されています。

This Endo- α was merchandised as the fruition of NEDO project.
本酵素は、NEDO プロジェクトの成果として製品化致しました。

- References
- 1) K. Fujita, F. Oura, N. Nagamine, T. Katayama, J. Hiratake, K. Sakata, H. Kumagai, K. Yamamoto, *J. Biol. Chem.* **2005**, *280*, 37415.
 - 2) H. Ashida, K. Yamamoto, T. Murata, T. Usui, H. Kumagai, *Arch. Biochem. Biophys.* **2000**, *373*, 394; T. Katayama, K. Fujita, K. Yamamoto, *J. Biosci. Bioeng.* **2005**, *99*, 457.

This product is not available for purchase in the U.S.

A1844 endo- α -N-Acetylgalactosaminidase (=Endo- α)
Recombinant: from *Bifidobacterium longum* expressed
in *Escherichia coli*

1vial

[59793-96-3] MFCD00131003 EC 3.2.1.97

Glycohydase-①

A0447 α -Amylase 25g 500g
diluted with Starch, from *Bacillus subtilis*

[9000-90-2] MFCD00081319 EC 3.2.1.1
MI14-599 RTECS BU7432500

A0448 β -Amylase from Soybean 25g

[9000-91-3] MFCD00081391 EC 3.2.1.2
MI14-599 RTECS BU7435000

C0057 Cellulase from *Aspergillus niger* 1g 5g 25g

[9012-54-8] MFCD00081510 EC 3.2.1.4
RTECS FJ5375000

M0035 Glucoamylase from *Rhizopus* 25g
(contains 50% Diatomaceous earth)

[9032-08-0] MFCD00081321 EC 3.2.1.3

G0050 Glucose Oxidase from *Aspergillus niger* 1g

[9001-37-0] MFCD00131182 EC 1.1.3.4
MI14-4460 RTECS RQ8452000

G0035 β -Glucosidase from Almonds 100mg

[9001-22-3] MFCD00130628 EC 3.2.1.21

H0164 Hyaluronidase from Bovine Testes 100mg

[9001-54-1] MFCD00081705 EC 3.2.1.35
MI14-4758 RTECS MT7260000

P0026 Pectinase from *Aspergillus niger*

25g 100g

[9032-75-1] MFCD00131809 EC 3.2.1.15

Lectin, Fucose Specific L-フコース特異的レクチン

Lectins recognize oligosaccharides and specifically well reversibly binded ones. Thus, lectins are widely utilized in cell biology related fields such as blood-type studies and binding studies of oligosaccharides to cancer cell surfaces, and many other important studies¹⁾. Lectins are widely distributed in nature and found from almost all types of living beings organisms like plants, microorganisms, fungus, invertebrates, vertebrates and viruses.

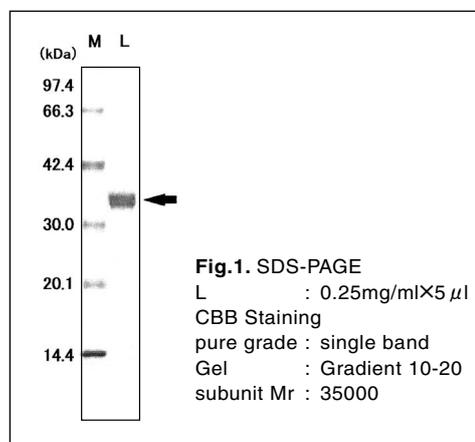
The product introduced today is a new-type of lectin isolated from *Aspergillus oryzae* in Japanese sake fermentation. This lectin has proven to have a strong affinity toward L-fucose according to the results of hemagglutination inhibition assay²⁾. The fucose bonding position shows the highest binding for oligosaccharides are the ones containing L-Fuc α 1-6 and α 1-2. Fucosyl residues α 1-3 and α 1-4 also possess the specificity. The molecular weight of L-fucose specific lectin subunit, a dimeric substance, showed 35,000 (Fig. 1). This lectin shows 26% similarity to lectine isolated from *Aleuria aurantia*²⁾, and its substrate specificity is also thought to be relatively similar.³⁾

Generally, lectins have been applied for the detection and the analysis of complex-type oligosaccharides as they can specifically recognize oligosaccharides. Especially, the ones with fucose typically possess physiological properties. Therefore, these lectins are often used for such purposes. For example, fucosylated oligosaccharides are known to participate in the life processes such as embryonic growth, differentiation, cell recognition, canceration, and inflammation. When *in-vivo* transformations of the fucose to oligosaccharides take place, such reactions are recognized as important indications of the antigen epitopes for the Lewis blood-type and cancer related carbohydrate antigens⁴⁾. The *Aspergillus oryzae* fucose specific lectin is not only utilized as an analyzing tool for the sugar-binding specificity of complex-type oligosaccharides, but it is highly applicable for a wide spectrum of studies on oligosaccharides⁵⁾.

糖鎖を認識して特異的かつ可逆的に結合するレクチンは、血液型の研究をはじめ、癌細胞の表面糖鎖の研究など、細胞生物学関連分野で広く利用されています¹⁾。その起源は、植物・微生物・キノコ・無脊椎動物・脊椎動物・ウイルスなど、あらゆる生物に広く分布することが明らかになってきています。

本品は、清酒醸造で用いられる麹菌 *Aspergillus oryzae* により単離された新規レクチンで、赤血球凝集阻害アッセイから、L-フコースに親和性を持つことが明らかとなっています²⁾。また、フコースの結合様式については、L-Fuc α 1-6に対して最も高い結合性を持ち、L-Fuc α 1-2, L-Fuc α 1-3, L-Fuc α 1-4残基に対しても結合性を有します。サブユニット分子量は35,000 (Fig.1) の2量体です。本レクチンは、遺伝子配列でヒドロチャワンタケレクチンと26%の相同性を持ち²⁾、基質特異性も比較的類似していると考えられています³⁾。

一般的に、レクチンは糖鎖を特異的に認識することから、複合糖鎖の検出・解析に応用されています。特にフコースを含む糖鎖は生理機能を持つ糖鎖が多く、検出・解析の対象となる場合が多いとされています。例えば、フコシル化糖鎖は胚発生・分化・細胞認識・癌化・炎症などの生命現象に関与していることが知られています。また人体においてもフコースが糖鎖に転移することは、ルイス式血液型や癌関連糖鎖抗原の抗原エピトープの重要な指標とされています⁴⁾。この麹菌フコースレクチンは、複合糖鎖の結合様式解析のツールにとどまらず、糖鎖研究に広く応用可能なレクチンです⁵⁾。



This lectin was merchandised under the technical tie-up with GEKKEIKAN SAKE COMPANY, LTD.
本レクチンは、月桂冠株式会社との技術協力のもと製品化しました。

L0169 Lectin, Fucose specific from *Aspergillus oryzae*
A2659 AOL-Biotin Conjugate

- References 1) N. Sharon, H. Lis, Lectins (Japanese translation), Japan Scientific Societies Press: Tokyo, 1990.
2) Molecular cloning and overexpression of *fleA* gene encoding a fucose-specific lectin of *Aspergillus oryzae*
H. Ishida, T. Moritani, Y. Hata, A. Kawato, K. Suginami, Y. Abe, S. Imayasu, *Biosci. Biotechnol. Biochem.* **2002**, 66(5), 1002.
3) K. Matsumura, K. Higashida, H. Ishida, Y. Hata, K. Yamamoto, M. Shigeta, Y. Mizuno-Horikawa, X. Wang, E. Miyoshi, J. Gu, N. Taniguchi, *J. Biol. Chem.* **2007**, 282, 15700.
4) H. Narimatsu, *Tanpakushitsu Kakusan Koso* **1998**, 43(16), 2394.
5) A. Kuno, Y. Kato, A. Matsuda, M. K. Kaneko, H. Ito, K. Amano, Y. Chiba, H. Narimatsu, J. Hirabayashi, *Mol. Cell. Proteomics* **2009**, 8, 99.

New

A2659 AOL-Biotin Conjugate

1mL

AOL = *Aspergillus oryzae* L-fucose-specific lectin

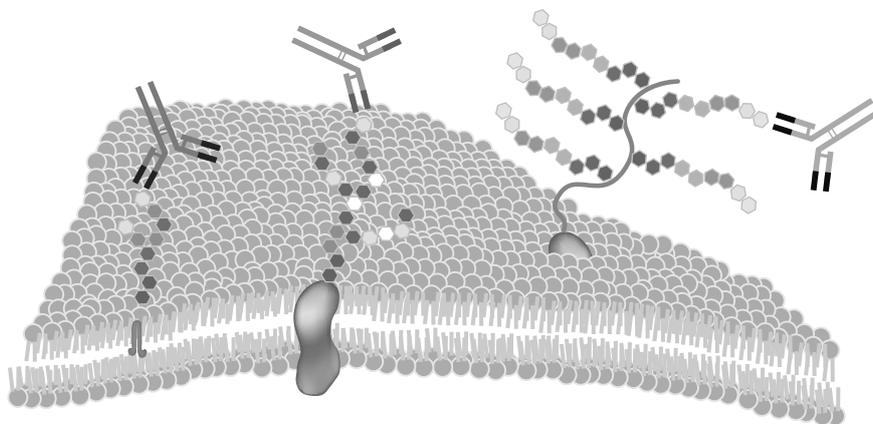
L0169 Lectin, Fucose specific

1mL

from *Aspergillus oryzae* (5mg/mL, PBS pH6.5)

MFC06798677

Anti-glyco Antibodies 抗糖鎖抗体



Carbohydrate chains are called the third life chain following the protein and the nucleic acid and are one of the most important issues in the post genome research. TCI supports glycoscience research by providing useful anti-glyco antibodies.

Most carbohydrate chains attach to lipids or proteins and occur in the form of glycoproteins or glycolipids (*N*-glycan, *O*-glycans, proteoglycans and others). Carbohydrate chains are known to be expressed on brain, nerve, cancer, and endothelial cells. Some carbohydrate chains are known to relate to diseases (e.g., cancer, Alzheimer's disease, Guillain-Barré syndrome, Lysosome syndrome such as Fabry disease, gangliosidosis), differentiation and development (iPS/ES cells). Seasonal influenza viruses, annual epidemics that peak during winter, cause infection via cell-surface glycans. Anti-influenza virus drugs are structural mimics of sialic acid, because neuraminidase is a sialic acid hydrolase that is essential for the release of progeny virus particles from the surface of an infected cell.

Antibodies are proteins which are one of the components of the immune system. The specificity of antibodies is likened to the interaction between a key and a keyhole. Antibodies are useful reagents for research in many scientific disciplines including life science and diagnostic reagents.

Anti-glyco antibodies can recognize glycolipids or glycoproteins. TCI mainly produces antibodies against glycolipids; ganglio-series, globo-series, lacto-series, and neolacto-series. These antibodies can be used for immunohistochemistry, cell-staining, inhibition assay for cell adhesion, flow cytometry, ELISA, TLC-immunostaining and other methods. TCI antibodies are very useful tools for analyzing the expression of carbohydrate chains and their functions.

Labeled anti-glyco antibody is also available.

糖鎖は、生命第3の鎖としてその生物機能が重要視され、ポストゲノム研究の一端を担う領域として注目されています。TCIでは、ポストゲノム時代の糖鎖研究に有用な抗糖鎖抗体でお客様の研究をサポート致します。

多くの糖鎖は、脂質やタンパク質などに結合し、糖脂質あるいは糖タンパク質 (*N*型、*O*型、プロテオグリカンなど)として存在しています。糖鎖は、脳、神経、癌細胞、血管内皮細胞などに存在することが知られており、iPS/ES細胞、癌、アルツハイマー、ギランバレー症候群、ファブリー病やガングリオシドーシスなどのリソソーム病などの疾患、発生、分化などで重要な役割を担うと考えられ、その重要性が注目されています。また、冬になると毎年のように流行するインフルエンザウイルスは細胞表面の糖鎖を介して感染します。現在使用されている抗インフルエンザ薬の多くはシアル酸を加水分解する酵素であるノイラミニダーゼの活性阻害を狙って開発されたため、シアル酸の構造を基にデザインされています。このように糖鎖はウイルスの感染やその治療にも深い関わりがあります。

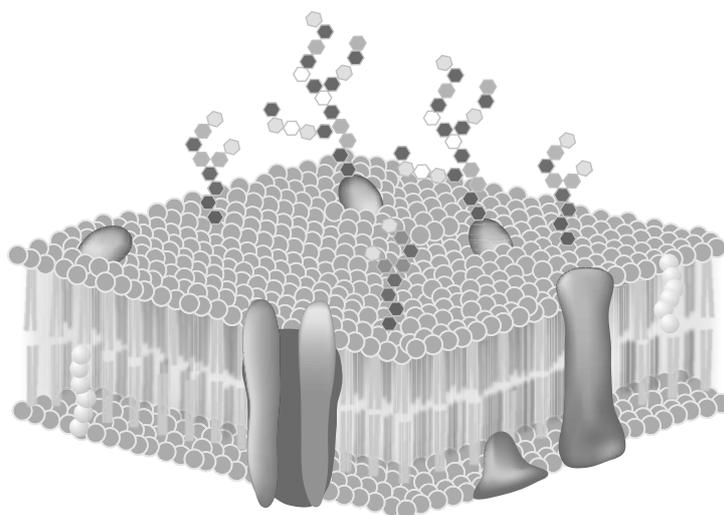
抗体は、免疫系を構成するタンパク質で、対応する抗原と鍵と鍵穴の関係のように高い特異性で結合します。抗体は、その高い特異性から生命科学の研究や診断薬の検出系として活用されています。

抗糖鎖抗体は、糖脂質、糖タンパク質などの糖鎖を特異的に認識できる抗体です。TCIでは、抗糖鎖抗体の中でもガングリオ系、グロボ系、ラクト系、ネオラクト系などの糖脂質に関連する抗体を中心に品揃えています。TCIの抗糖鎖抗体は、細胞、組織、生体試料での糖鎖(抗原)の局在、疾患や発生、分化過程での糖鎖の変化などを調べるツールとして有用で、組織染色、細胞染色、細胞接着阻害研究、フローサイトメトリー、ELISA、TLC免疫染色などの幅広い用途でご使用いただけます。

また、標識抗糖鎖抗体も発売しております。

New

Anti-glycolipid Antibodies 糖脂質抗体



Glycolipids consist of a hydrophilic sugar chain moiety and a hydrophobic lipid moiety. There are over 100 molecular species of glycolipids, with important physiological functions. "Ganglioside" is a generic term to describe glycosphingolipids containing sialic acid. Gangliosides were discovered in the brain by the German scientist E. Klenk, approximately 70 years ago. TCI's anti-glycolipid antibody products will support your research.

糖脂質は疎水性の糖鎖部分と親水性の脂質部分からなり、その分子種は100種類を超え、生理機能も非常に多彩である。ガングリオシドはシアル酸を含むスフィンゴ糖脂質の総称で、約70年前にドイツのE. Klenkにより脳から発見されました。TCIでは、抗糖脂質抗体を取り揃えお客様の研究をサポート致します。

- A2505** Anti-GM₁ Monoclonal Antibody
- A2506** Anti-Gb₃ Monoclonal Antibody
- A2507** Anti-GD_{1a} Monoclonal Antibody
- A2508** Anti-GD_{1b} Monoclonal Antibody
- A2576** Anti-GM₂ Monoclonal Antibody
- A2580** Anti-GD₃ Monoclonal Antibody
- A2582** Anti-GM₃ Monoclonal Antibody
- A2662** Anti-GQ_{1b} Monoclonal Antibody
- A2701** Anti-GalNAc-GD_{1a} Monoclonal Antibody
- A2702** Anti-GT_{1a} Monoclonal Antibody
- A2706** Anti-SGPG (HNK-1) Monoclonal Antibody
- A2732** Anti-GT_{1b} Monoclonal Antibody
- A2822** Anti-Gb₃ Monoclonal Antibody Biotin Conjugate

Anti-blood Group Antigen Antibodies 血液型および関連糖鎖抗体

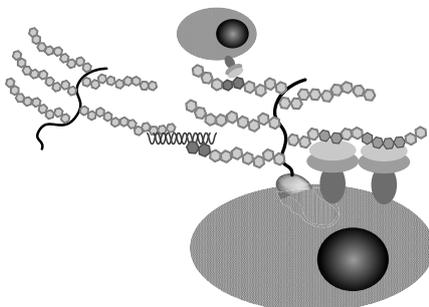
Blood group antigens are expressed on the surface of erythrocytes. Besides the well-known ABO antigens, other antigens also exist, such as Lewis antigens. For example, the sialyl-Le^a antigen (also referred to as CA 19-9) is widely used as a cancer marker. Lewis antigens are also involved in cell adhesion and in the homing of lymphocytes to inflammation sites.

赤血球の表面には一群の糖鎖抗原が発現している。もっとも有名なA B O式血液型物質の他にもルイス式血液型物質などの分類がある。たとえばシアリルLe^a抗原はCA19-9として癌の診断に利用されていることで有名であり、また細胞接着に重要な糖鎖構造として、リンパ球の炎症部位へのホーミングに関与することがわかっている。

- A2509** Anti-Sialyl Lewis A Monoclonal Antibody (2D3)
- A2510** Anti-Lewis Y Monoclonal Antibody
- A2578** Anti-Lewis X Monoclonal Antibody
- A2584** Anti-Sialyl Lewis A Monoclonal Antibody (1H4)
- A2849** Anti-Sialyl Lewis X Monoclonal Antibody

Anti-glycosaminoglycan Antibodies グリコサミノグリカン抗体

New



The extracellular matrix (ECM) is an essential element for higher organisms to form cells, tissues, and organs; to control cell-cell connections and functions; and to control cellular activities (such as proliferation, differentiation, migration, metabolism, and morphogenesis). The ECM also greatly affects several biological phenomena (such as development, aging, inflammation, wound healing, and immunity). Glycosaminoglycans, such as chondroitin sulfate and hyaluronic acid, are major components of the ECM and play an important role. Analysis of glycosaminoglycans is very difficult, especially when performing *in situ* analysis of cells and tissues. Thus, antibodies are particularly important as a detection tool.

細胞外マトリックスはヒトなどの高等生物が細胞、組織、器官を形成する為に必須の要素で細胞間のつながりや、機能を制御する場を作り細胞の活動（増殖、分化、移動、代謝、形態）に影響を与えることで、生命現象（発生、加齢、炎症、創傷治癒、免疫）に大きく関わっている。その中で重要な役割を果たすのがコアプロテインに結合するコンドロイチン硫酸やヒアルロン酸などのグリコサミノグリカンである。多糖であるグリコサミノグリカンの機器分析は非常に難しく、特に細胞や組織の“生の場”での解析は抗体が検出ツールとして重要です。

- A2872** Anti-Chondroitin Sulfate D Monoclonal Antibody (MO-225)
- A2968** Anti-Keratan Sulfate Monoclonal Antibody (R-10G)
- A3143** Anti-Chondroitin Sulfate A Monoclonal Antibody (LY111)

Secondary Antibody and Detection Protein 二次抗体および検出用タンパク質

Primary antibody bound to an antigen can be detected using a secondary antibody or a detection protein. TCI produces secondary antibodies from several animal species. Please select a label type according to the desired application.

二次抗体及び検出用タンパク質を用いて、抗原に結合する一次抗体を検出することが出来ます。TCIでは一次抗体に合わせて数種類の動物種の二次抗体をご用意しています。アプリケーションに応じて標識タイプをお選びください。

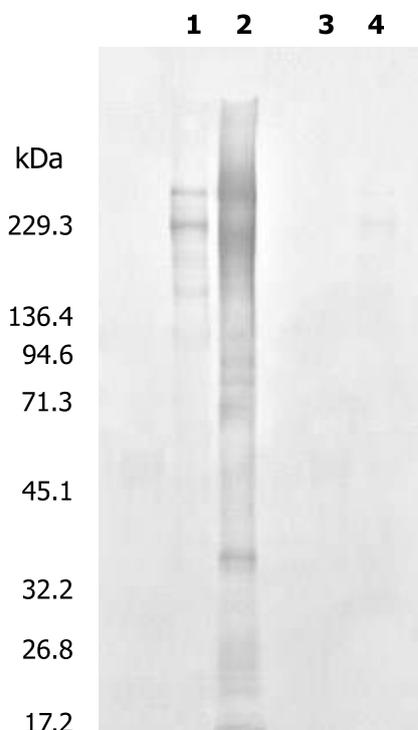
Label type \ Target	Plane	Biotin	HRP (酵素的)	FITC (蛍光)	DTBTA (希土類蛍光)
Mouse IgG	G0386	G0387	G0407	G0406	G0505
Mouse IgM	G0408	G0432	G0417	G0453	---
Rabbit IgG	G0388	G0389	G0418	G0452	G0506
Chicken IgY	S0998	H1619	S0999	---	---
Human IgG-Fc	M2977	M3053	---	---	---
Biotin-conjugate	S0951	---	S0972	S0966	S0993
Captured by protein A	P2366	P2407	P2466	---	---

Anti- α Gal Polyclonal Antibody -Antibodies Capable of Detecting α Gal Epitope (Gal α 1-3Gal)- 抗 α Gal ポリクローナル抗体 — α Gal エピトープ (Gal α 1-3Gal) を検出可能な抗体—

Anti- α Gal antibody exists as a natural antibody in humans. Binding of this antibody to α Gal antigens (α Gal epitope) expressed on the porcine xenograft surface is a major factor for determining engrafts survival. Recently, it has been observed that therapeutic antibodies and cell processing material for reproductive medicine contain the α Gal epitope; therefore, rapid detection of the α Gal epitope is a very important.

ヒト生体内には自然抗体として抗 α Gal抗体 (anti- α Gal antibody) が存在する。この抗体がブタ移植片細胞表面等に発現している α Gal抗原 (α Galエピトープ) を認識、反応することが異種移植片生着の大きな障壁になっていることがわかっている。また最近では、再生医療用の細胞加工品や抗体医薬品にこの α Galエピトープが含まれることが課題となっており、 α Galエピトープの存在を迅速に検出することは非常に重要なテクノロジーとなっている。

Anti- α Gal antibody can be utilized for detection of the α Gal epitope on glycoproteins



Western blotting analysis is performed using an anti- α Gal polyclonal antibody biotin conjugate (TCI code A3144).

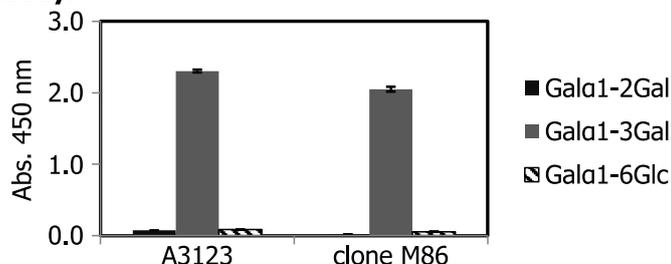
Lane 1: Thyroglobulin, porcine thyroid gland.

Lane 2: Laminin, Engelbreth-Holm-Swarm murine sarcoma basement membrane.

Lane 3: Thyroglobulin treated with α 1-3, 4, 6 galactosidase.

Lane 4: Laminin treated with α 1-3, 4, 6 galactosidase.

Anti- α Gal antibody shows the same high specificity compared with an anti- α Gal monoclonal antibody.



These glycoconjugates were coated on ELISA plate. These epitope and anti- α Gal antibodies were reacted at an appropriate time, then 1st Abs were detected using appropriate secondary antibodies.

A3123 Anti- α Gal Polyclonal Antibody (Chicken)

A3144 Anti- α Gal Polyclonal Antibody Biotin Conjugate

Anti-Glyco Antibody-①

New **A3143 Anti-Chondroitin Sulfate A
Monoclonal Antibody (LY111)** 1vial

New **A2872 Anti-Chondroitin Sulfate D
Monoclonal Antibody (MO-225)** 1vial

New **A2701 Anti-GalNAc-GD_{1a} Monoclonal
Antibody** 1vial

New **A3144 Anti- α Gal Polyclonal Antibody
Biotin Conjugate** 1vial

New **A3123 Anti- α Gal Polyclonal Antibody
(Chicken)** 1vial

**A2586 Anti-Gb₃ Monoclonal Antibody
(Culture Supernatant)** 0.2mL

A2506 Anti-Gb₃ Monoclonal Antibody 1vial

試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

New **A2822 Anti-Gb₃ Monoclonal Antibody Biotin Conjugate** 1vial

A2507 Anti-GD_{1a} Monoclonal Antibody 1vial

A2508 Anti-GD_{1b} Monoclonal Antibody 1vial

A2579 Anti-GD₃ Monoclonal Antibody 0.2mL
(Culture Supernatant)

A2580 Anti-GD₃ Monoclonal Antibody 1vial

A2505 Anti-GM₁ Monoclonal Antibody 1vial

A2575 Anti-GM₂ Monoclonal Antibody 0.2mL
(Culture Supernatant)

Anti-Glyco Antibody-③

A2576 Anti-GM₂ Monoclonal Antibody 1vial

A2581 Anti-GM₃ Monoclonal Antibody 0.2mL
(Culture Supernatant)

A2582 Anti-GM₃ Monoclonal Antibody 1vial

New **A2662 Anti-GQ_{1b} Monoclonal Antibody** 1vial

New **A2702 Anti-GT_{1a} Monoclonal Antibody** 1vial

New **A2732 Anti-GT_{1b} Monoclonal Antibody** 1vial

New **A2968 Anti-Keratan Sulfate
Monoclonal Antibody (R-10G)** 1vial

試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

A2577 Anti-Lewis X Monoclonal Antibody 0.2mL
(Culture Supernatant)

A2578 Anti-Lewis X Monoclonal Antibody 1vial

A2587 Anti-Lewis Y Monoclonal Antibody 0.2mL
(Culture Supernatant)

A2510 Anti-Lewis Y Monoclonal Antibody 1vial

New **A2706 Anti-SGPG(HNK-1) Monoclonal Antibody** 1vial

A2583 Anti-Sialyl Lewis A Monoclonal Antibody 0.2mL
(1H4) (Culture Supernatant)

A2509 Anti-Sialyl Lewis A Monoclonal Antibody (2D3) 1vial

Anti-Glyco Antibody-⑤

A2584 Anti-Sialyl Lewis A Monoclonal Antibody (1H4) 1vial

New **A2660 Anti-Sialyl Lewis X Monoclonal Antibody** 0.5mL
(Culture Supernatant)

New **A2849 Anti-Sialyl Lewis X Monoclonal Antibody** 1vial

Secondary Antibody-①

New **G0386 Goat Anti-Mouse IgG** 1vial
(1mg/vial)

New **G0387 Goat Anti-Mouse IgG Biotin Conjugate** 1vial
(0.1mg/vial)

New **G0505 Goat Anti-Mouse IgG DTBTA-Eu³⁺ Conjugate** 1vial

G0406 Goat Anti-Mouse IgG FITC Conjugate 1vial

G0407 Goat Anti-Mouse IgG HRP Conjugate 1vial

G0408 Goat Anti-Mouse IgM 1vial

New **G0432 Goat Anti-Mouse IgM Biotin Conjugate** 1vial

Secondary Antibody-②

New **G0453 Goat Anti-Mouse IgM FITC Conjugate** 1vial

G0417 Goat Anti-Mouse IgM HRP Conjugate 1vial

G0388 Goat Anti-Rabbit IgG 1vial
(Preservative : 0.07% NaN₃) (1mg/vial)

G0389 Goat Anti-Rabbit IgG Biotin Conjugate 1vial
(Preservative : 0.05% NaN₃, Stabilizer : 1% BSA) (0.1mg/vial)

New **G0506 Goat Anti-Rabbit IgG DTBTA-Eu³⁺ Conjugate** 1vial

New **G0452 Goat Anti-Rabbit IgG FITC Conjugate** 1vial

G0418 Goat Anti-Rabbit IgG HRP Conjugate 1vial

試験, 研究を目的とした弊社収載化学品は, その使用により発生した特許法上の諸問題をユーザーの方々に保証するものではありません。

Secondary Antibody-③

New **M2977 Mouse Anti-Human IgG Fc** 1vial

New **M3053 Mouse Anti-Human IgG Fc Biotin Conjugate** 1vial

New **S0998 Sheep Anti-Chicken IgY** 1vial

New **H1619 Sheep Anti-Chicken IgY Biotin Conjugate** 1vial

New **S0999 Sheep Anti-Chicken IgY HRP Conjugate** 1vial

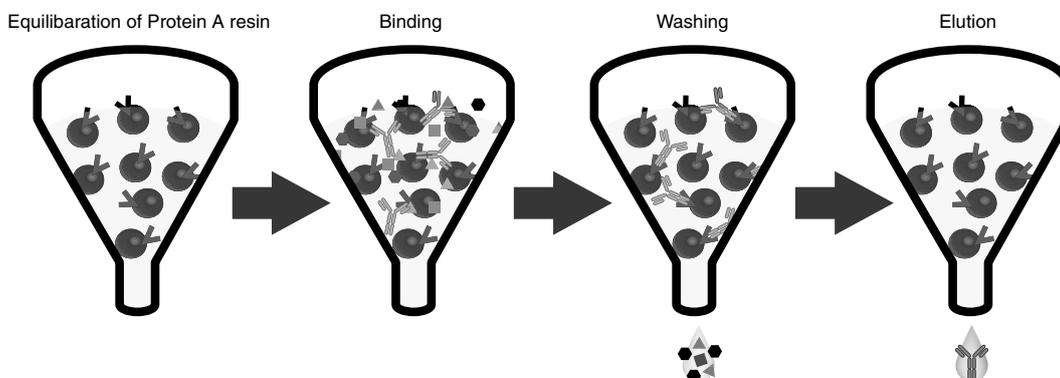
New

Protein A プロテインA

Protein A is a membrane protein produced by several strains of *Staphylococcus aureus*. It has high-affinity binding sites that enable the purification of IgG obtained from various species such as humans, rabbit, mouse, and bovine. Protein A Agarose (P2461) is prepared using a covalent coupling method that maintains the stability and binding characteristics of the product. By using TCI resin, human IgGs can be eluted under milder conditions (such as at pH4.0) as compared to elution by conventional methods.

プロテインAは*Staphylococcus aureus*株より産生される膜タンパク質で、ヒト、ウサギ、マウスやウシなどの様々な動物種のIgGに結合する部位を持ち、精製に用いることが出来る。Protein A Agarose (P2461) は共有結合法により樹脂に結合されており、これを使うことにより抗体の精製が可能で、TCI製品は、従来製品と比べてヒトIgGを温和な条件 (pH4.0) で溶出することが可能です。

Antibody purification procedure



- P2366** Protein A Recombinant, expressed in *Escherichia coli*
- P2407** Protein A Biotin Conjugate
- P2466** Protein A HRP Conjugate
- P2461** Protein A Agarose

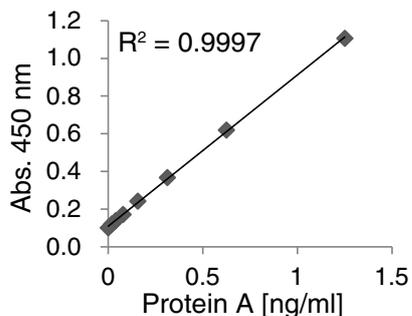
Protein A eluted from the purified resin may become a problem during the antibody purification process. By using TCI anti Protein A antibody, it is possible to quantify, with high sensitivity, the Protein A in solution.

抗体精製過程において、精製樹脂から溶出するプロテインAが問題となることがあります。

TCIの抗プロテインA抗体を使用すれば、高感度に溶液中のプロテインAを定量することが可能です。

High-sensitive detection of Protein A by sandwich-ELISA

[Example of calibration curve]



- ◆ Anti-Protein A antibody (A3044) was diluted with sodium carbonate buffer (pH 8.5), and coated on an ELISA plate
- ◆ Blocking for 2 hours with 1% BSA / TBS-T
- ◆ After washing 3 times with TBS-T, the sample was added to each well and incubated for 30 minutes
- ◆ After washing 3 times with TBS-T, 1 µg / mL of anti-Protein A antibody biotin conjugate (A3045) was added to each well and incubated for 30 minutes
- ◆ After washing 3 times with TBS-T, SA-HRP (S0972) was added to each well and incubated for 30 minutes
- ◆ After washing 3 times with TBS-T, add TMB solution and react for 30 minutes
- ◆ The reaction was stopped by adding 1 N HCl, and the absorbance was measured at 450 nm

- A3044** Anti-Protein A Chicken Polyclonal Antibody
- A3045** Anti-Protein A Chicken Polyclonal Antibody Biotin Conjugate
- A3187** Anti-Protein A Chicken Polyclonal Antibody HRP Conjugate

Related Products for Immunological Research-①

New **A2958 Anti-Endo-M Polyclonal Antibody** 1vial

New **A2959 Anti-Endo-M Polyclonal Antibody Biotin Conjugate** 1vial

A2250 Anti-HRP Rabbit Polyclonal Antibody 0.2mL

MFCD00162388

New **A3044 Anti-Protein A Chicken Polyclonal Antibody** 1vial

New **A3045 Anti-Protein A Chicken Polyclonal Antibody Biotin Conjugate** 1vial

New **A3187 Anti-Protein A Chicken Polyclonal Antibody HRP Conjugate** 1vial

New **A2957 Anti-6xHis Monoclonal Antibody (6A12)** 1vial

Related Products for Immunological Research-②

New **A3010 Anti-6xHis Monoclonal Antibody (6A12) Biotin Conjugate** 1vial

New **P2366 Protein A** 1vial
Recombinant, expressed in *Escherichia coli*

New **P2461 Protein A Agarose** 1vial
MFCD00165563

New **P2407 Protein A Biotin Conjugate** 1vial

New **P2466 Protein A HRP Conjugate** 1vial

New **S0951 Streptavidin** 1vial
from *Streptomyces avidinii*
[9013-20-1] MFCD00082035

S0993 Streptavidin DTBTA-Eu³⁺ Conjugate 1vial

Related Products for Immunological Research-③

New **S0966 Streptavidin FITC Conjugate** 1vial

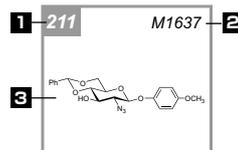
New **S0972 Streptavidin HRP Conjugate** 1vial
MFCD00132387

NMR Data

250 main Glyco products among our glycochemistry-related products show ^1H NMR spectrum.
弊社糖鎖関連試薬のうち、主な製品250品の ^1H NMRスペクトルデータを掲載しています。

NMR Data Index

Layout of the Index / 凡例



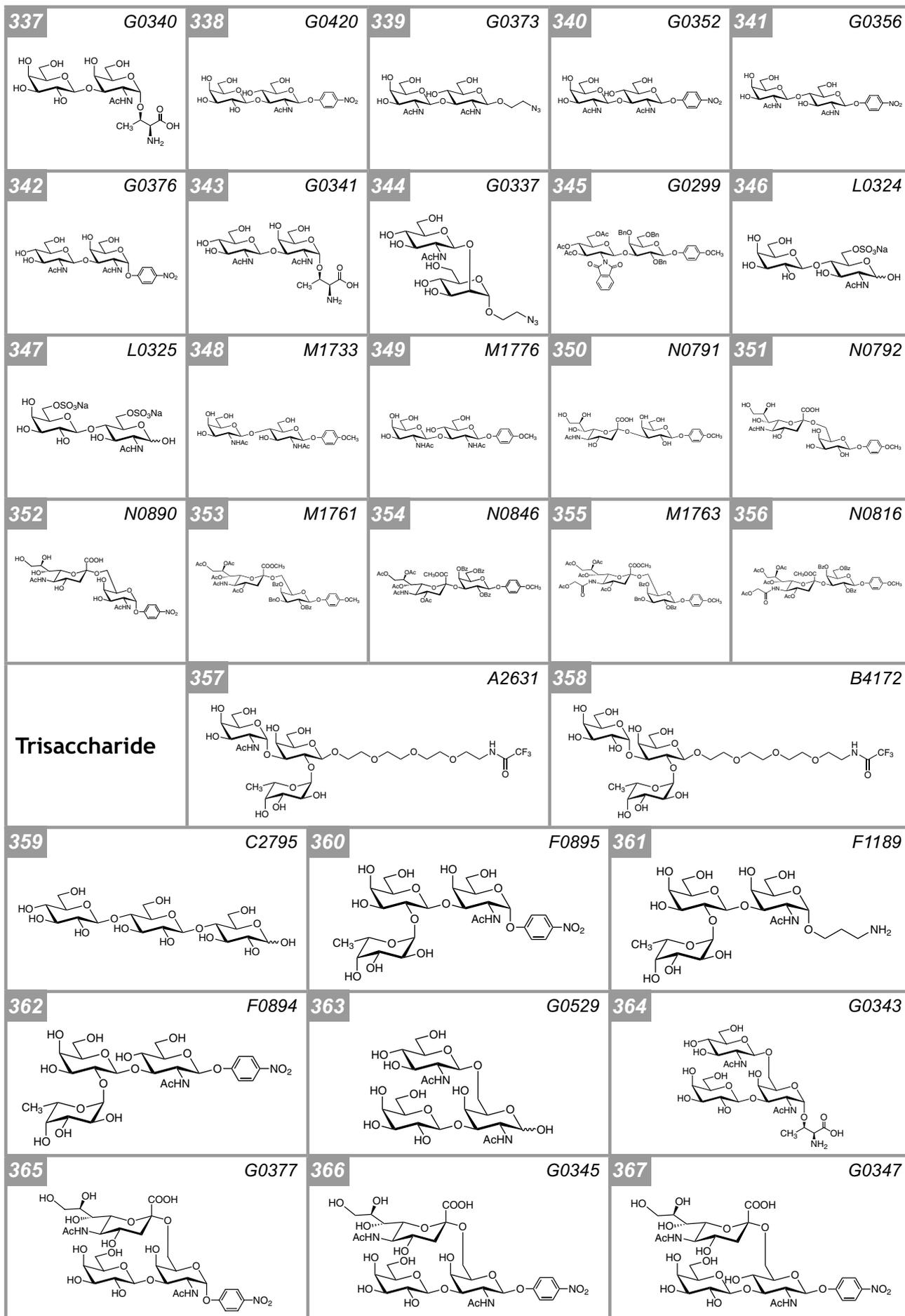
- 1** Page 掲載ページ
2 Product Number 製品コード
3 Structural Formula 構造式

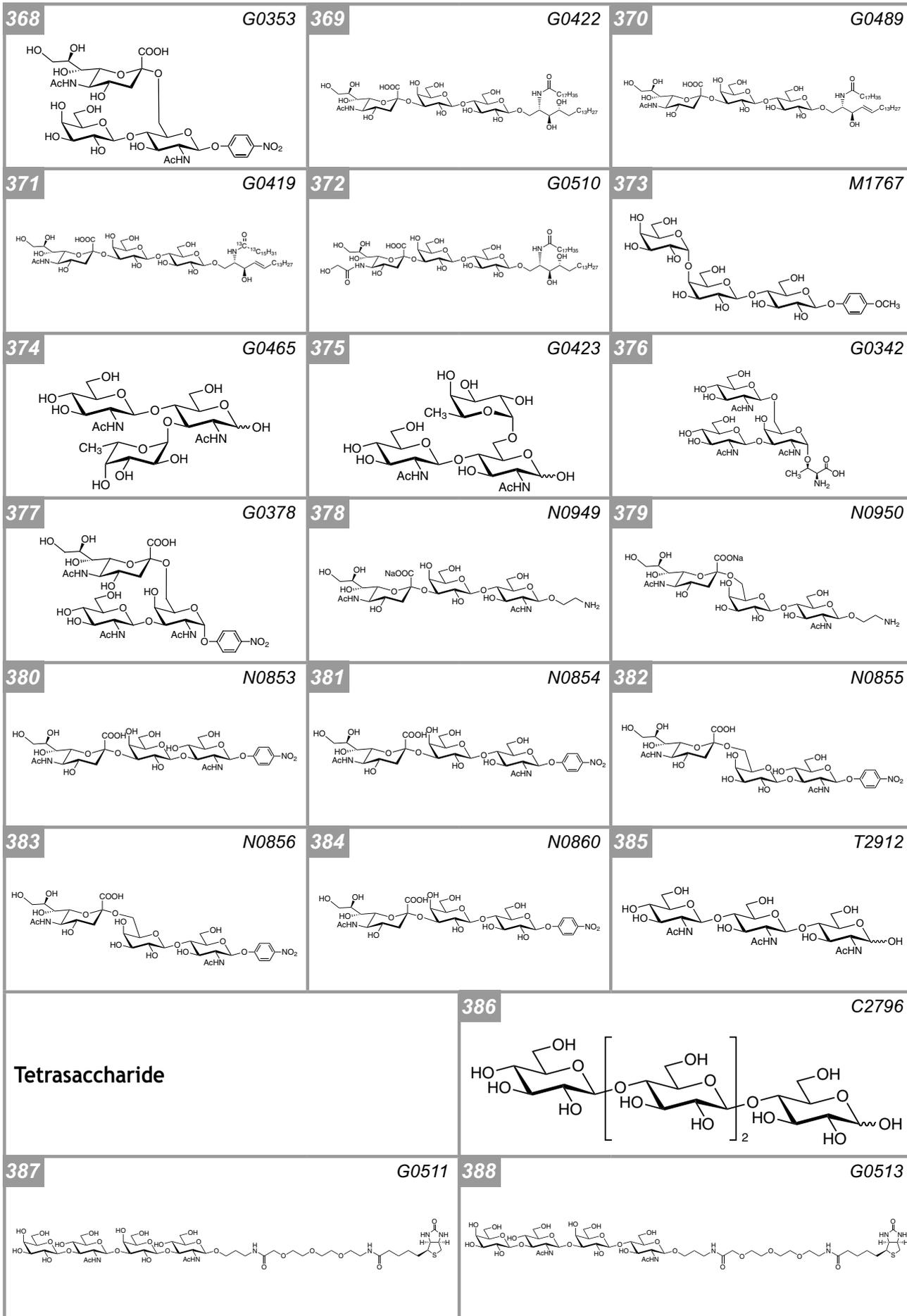
Arabinose	198 <i>T2695</i> 	Fructose	199 <i>D5395</i> 	
Fucose	200 <i>M1626</i> 	201 <i>M1628</i> 	Galactose	202 <i>A3167</i>
203 <i>D5458</i> 	204 <i>M1620</i> 	205 <i>M1589</i> 	206 <i>M1590</i> 	207 <i>M1482</i>
208 <i>M1725</i> 	209 <i>M1710</i> 	210 <i>M1597</i> 	211 <i>M1634</i> 	212 <i>M1633</i>
213 <i>M1481</i> 	214 <i>M1596</i> 	215 <i>M1593</i> 	216 <i>M1594</i> 	217 <i>M1477</i>
218 <i>M1588</i> 	219 <i>M1592</i> 	220 <i>M1933</i> 	221 <i>P2078</i> 	222 <i>P1477</i>
223 <i>P1679</i> 	224 <i>P1680</i> 	225 <i>T2295</i> 	Galactosamine	226 <i>A1833</i>

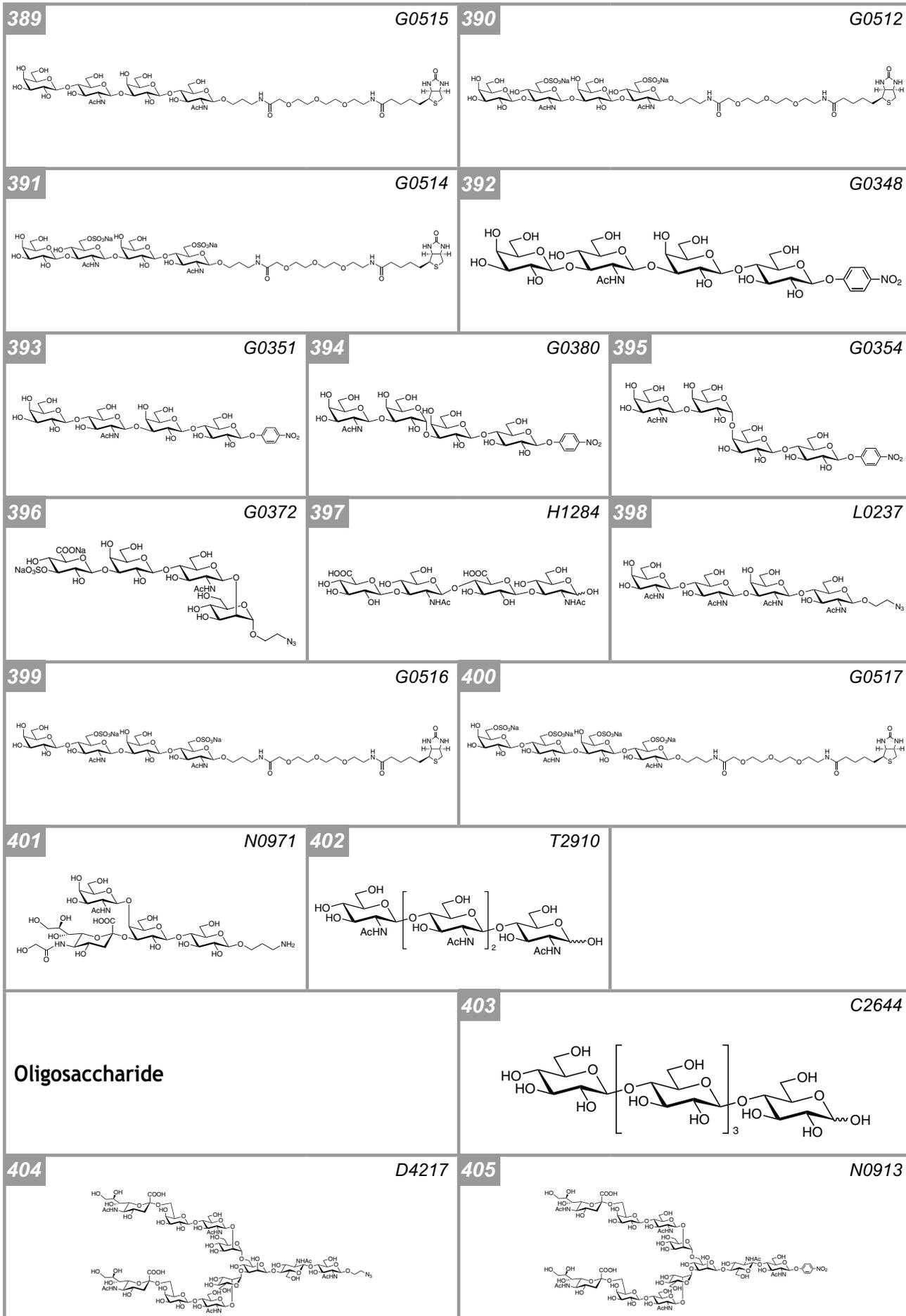
227	A1832	228	A2627	229	M1643	230	M2737	231	P1643
232	P1642	233	T1731	Glucose		234	A2253	235	A2377
236	B4170	237	B4171	238	G0339	239	M2434	240	M1640
241	M1641	242	M1631	243	M1630	244	M1642	245	M1682
246	M1487	247	M1488	248	A2638	249	P1475	250	P1476
251	P1736	252	T2449	253	T1995	254	T2491	255	P2079
256	P2080	257	T1991	258	T1922	259	T1923	260	T2197
261	T1999	Glucosamine		262	A1812	263	A1813	264	A1811

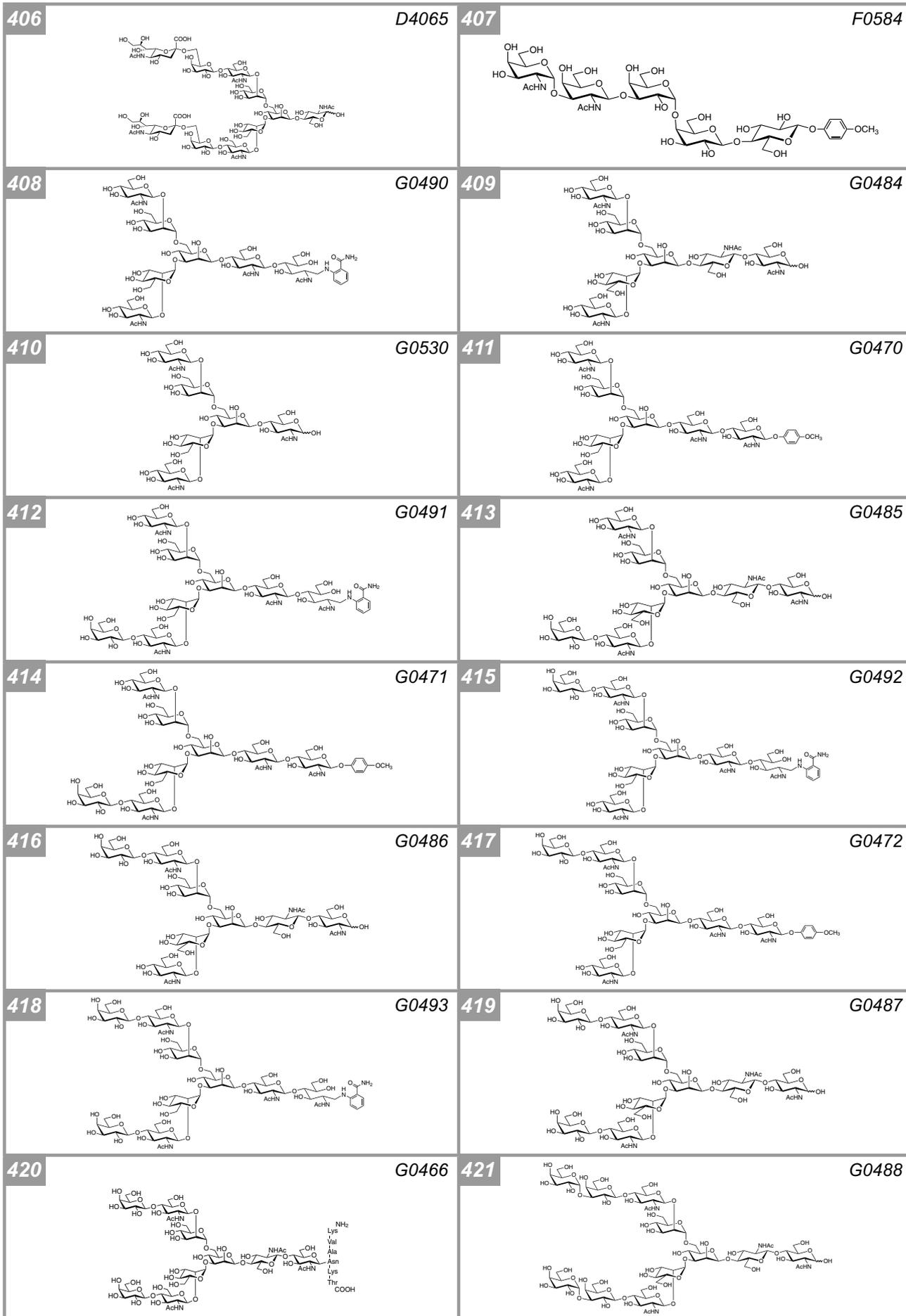
265	A1614	266	A1616	267	A1678	268	A1685	269	A2172
270	G0297	271	M2051	272	M1638	273	M1598	274	M1616
275	M1637	276	M1617	277	M1609	278	M1479	279	M1615
280	M1480	281	M1649	282	P1762	283	T2196	284	T2047
Glucuronic Acid		285	M1759	286	M1868	287	N0857		
Inositol		288	I0629	289	I0628	290	I0630	291	I0631
292	I0634	293	Q0070	294	Q0071		Mannose	295	D5294
296	M2435	297	M1646	298	M1647	299	M1501	300	P1514

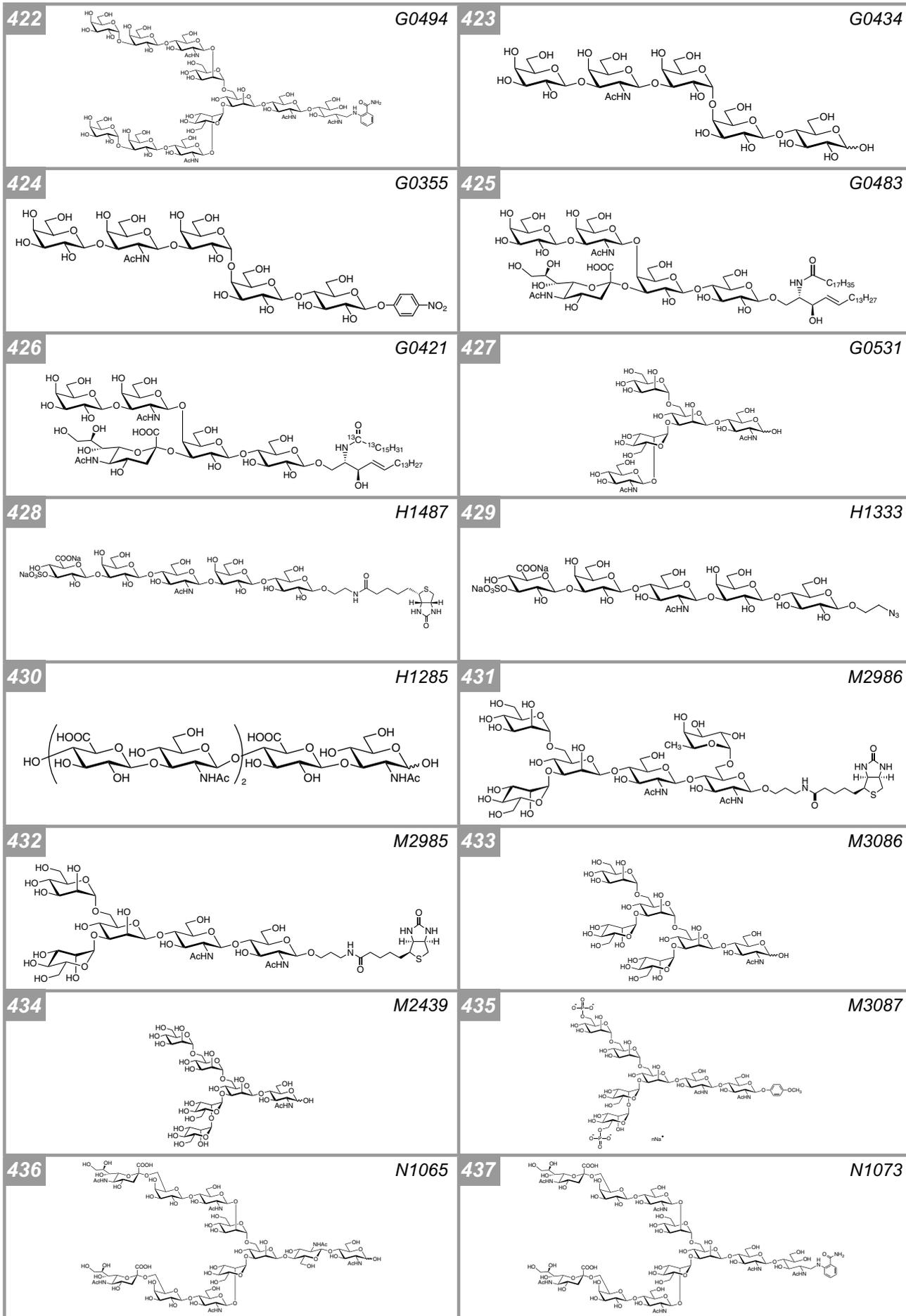
301	<i>P1803</i>	302	<i>P2521</i>	303	<i>T2567</i>	304	<i>T2307</i>	305	<i>T2568</i>
Mannosamine		306	<i>G0463</i>	307	<i>T1733</i>	Ribose		308	<i>R0082</i>
309	<i>R0083</i>	Sialic Acid		310	<i>A2511</i>	311	<i>A2492</i>	312	<i>A1821</i>
313	<i>M1706</i>	314	<i>M2329</i>	315	<i>M2695</i>	316	<i>M2696</i>	317	<i>M2330</i>
318	<i>A1822</i>	Disaccharide		319	<i>A2630</i>	320	<i>D4215</i>	321	<i>D5372</i>
322	<i>F1030</i>	323	<i>F0897</i>	324	<i>F1021</i>	325	<i>G0460</i>	326	<i>G0330</i>
327	<i>G0329</i>	328	<i>G0309</i>	329	<i>G0311</i>	330	<i>M1686</i>	331	<i>M1727</i>
332	<i>G0461</i>	333	<i>G0439</i>	334	<i>G0375</i>	335	<i>G0344</i>	336	<i>G0528</i>



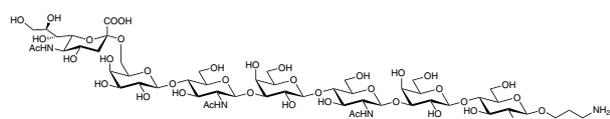






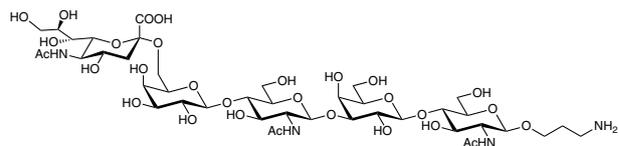


438



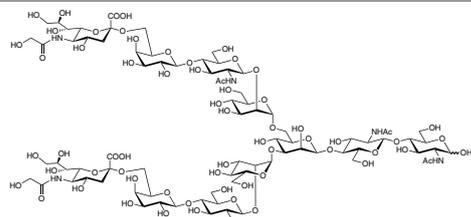
N1118

439



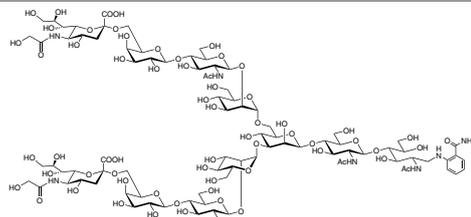
N1117

440



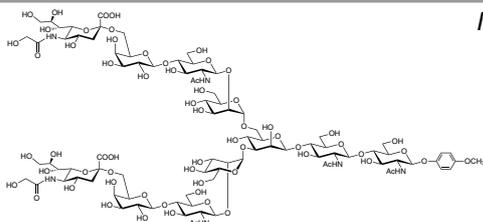
N1064

441



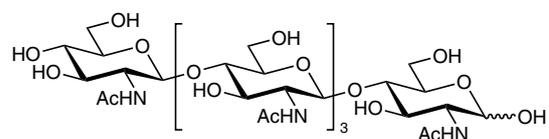
N1075

442



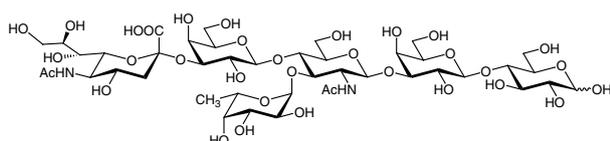
N1046

443



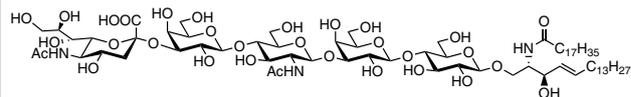
P2027

444



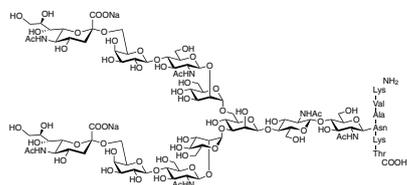
S0849

445



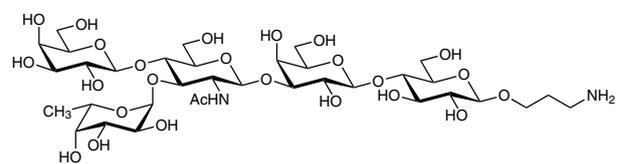
S0910

446



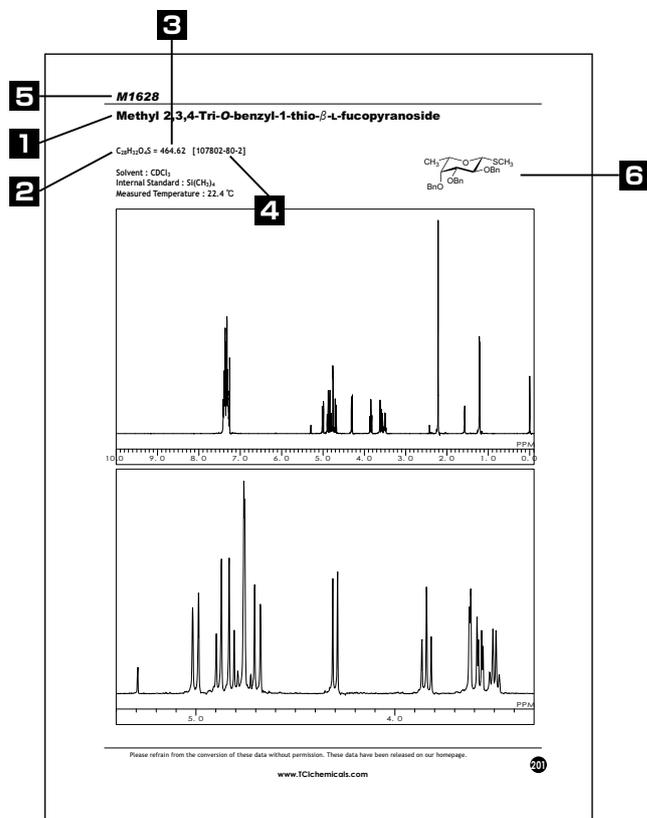
S0523

447



S0946

Layout of the Sheet / 凡例



- | | |
|------------------------------|-------|
| 1 Chemical Name | 製品名 |
| 2 Molecular Formula | 分子式 |
| 3 Molecular Weight | 分子量 |
| 4 CAS Registry Number | CAS番号 |
| 5 Product Number | 製品コード |
| 6 Structural Formula | 構造式 |

¹H-NMR Spectra were recorded on a JEOL JNM-ECX 400 spectrometer.
¹H-NMRスペクトルは、日本電子社製JNM-ECX 400型で測定しました。

T2695

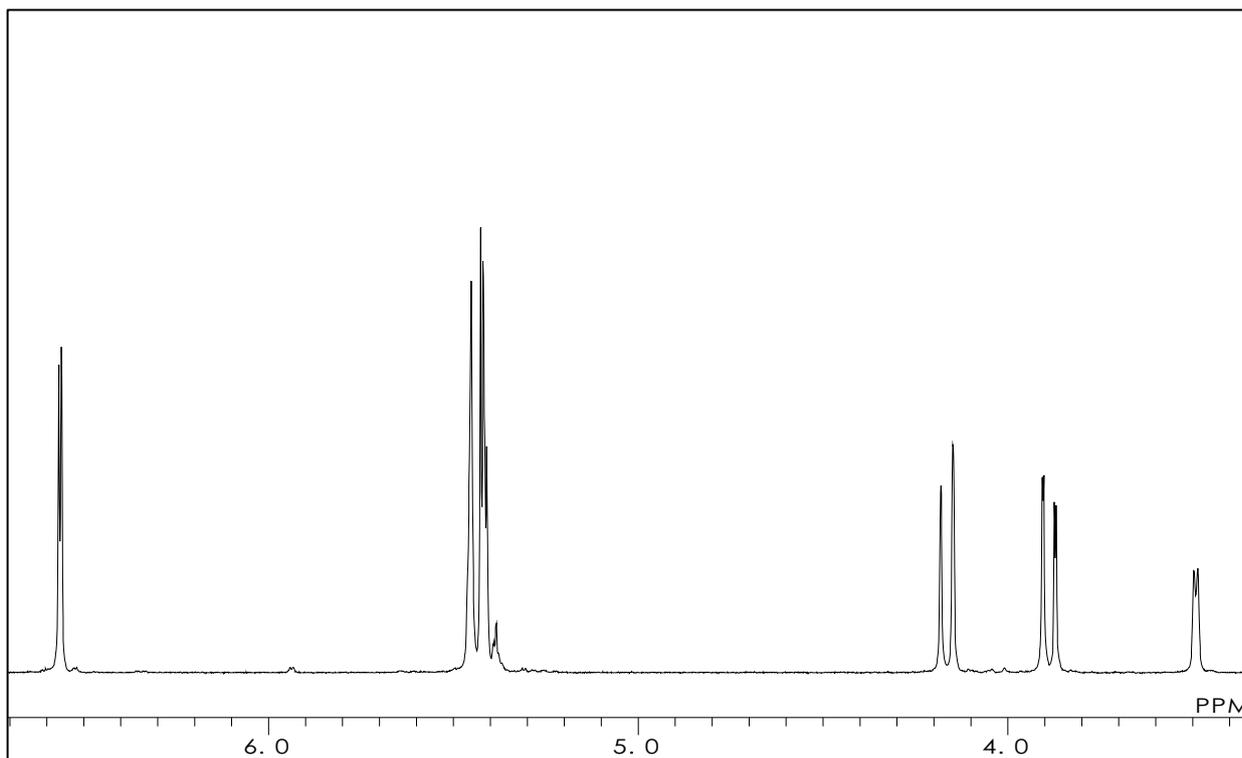
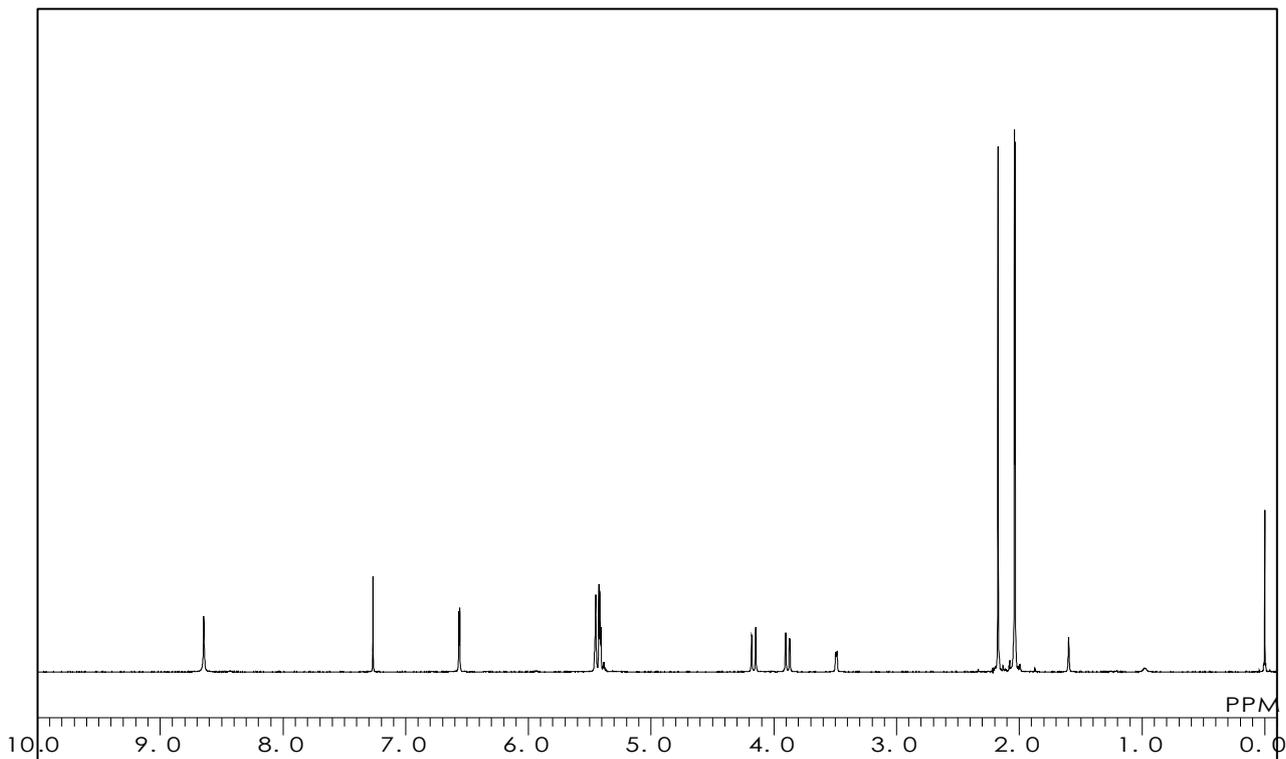
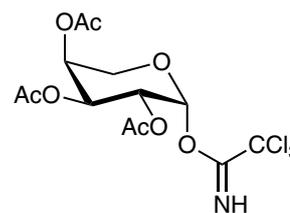
**2,3,4-Tri-O-acetyl-β-L-arabinopyranosyl
2,2,2-Trichloroacetimidate**

C₁₃H₁₆Cl₃NO₈ = 420.62 [869848-87-3]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 23.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

D5395

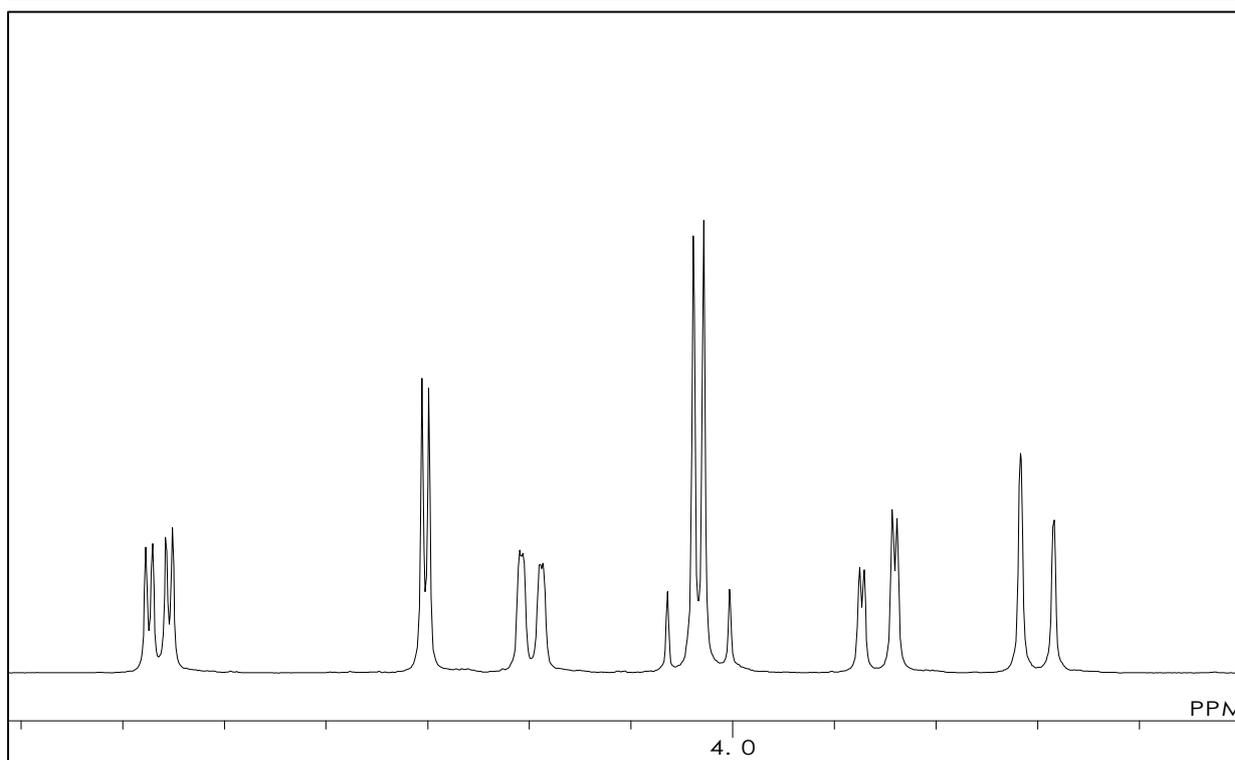
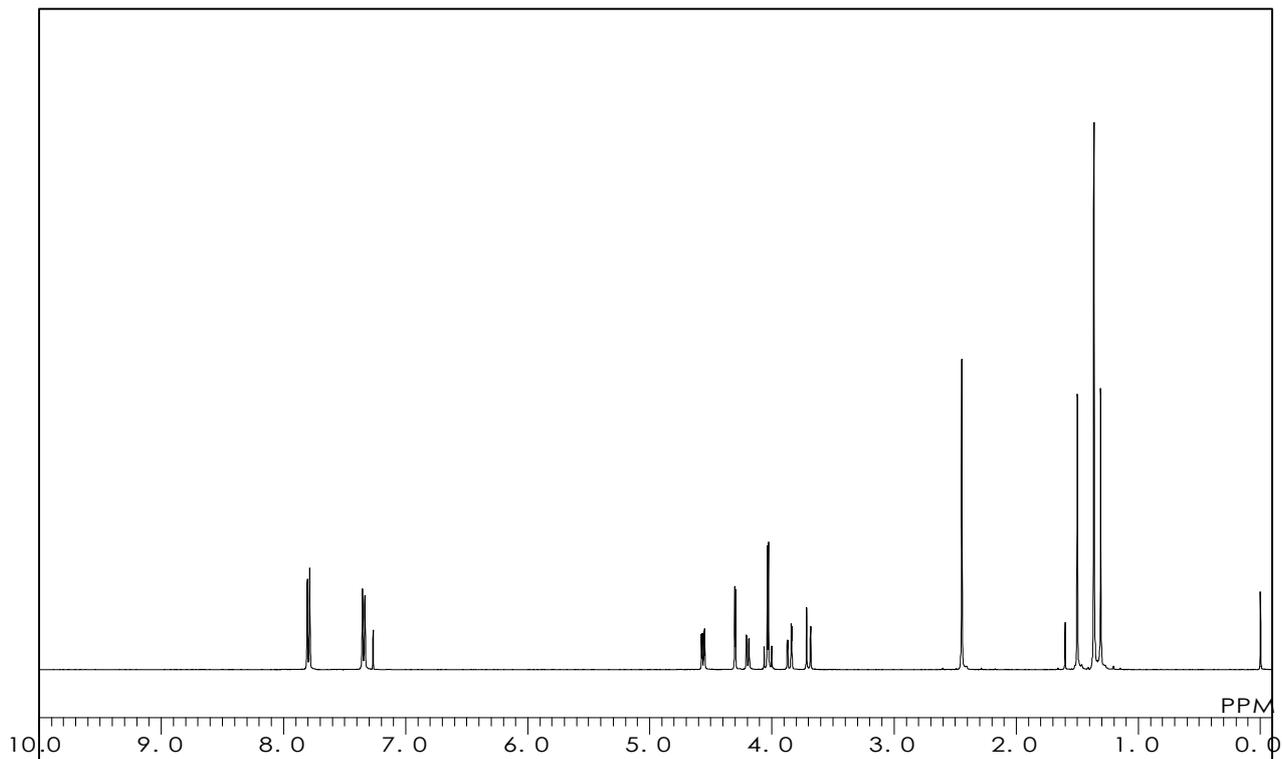
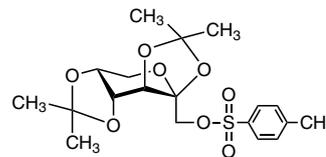
2,3:4,5-Di-O-isopropylidene-1-O-*p*-toluenesulfonyl- β -D-fructopyranose

$C_{19}H_{26}O_8S = 414.47$ [78574-35-3]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.5 °C



M1626

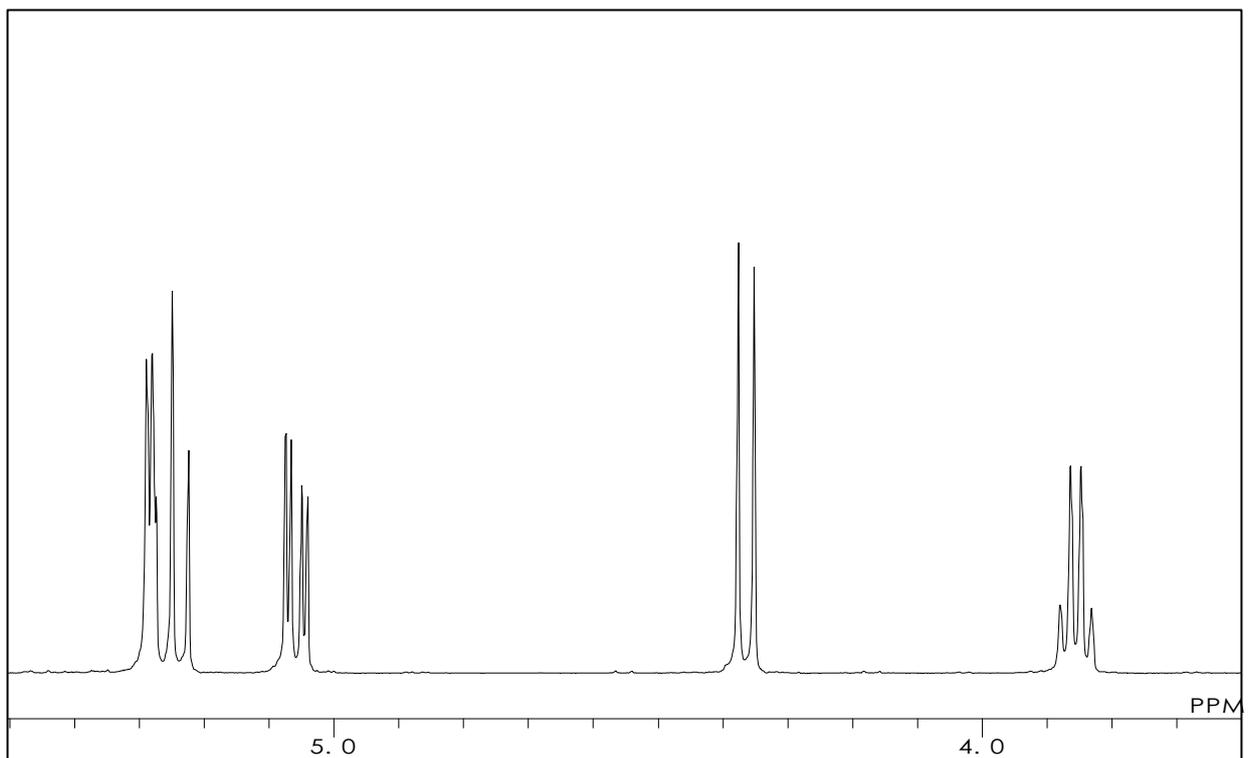
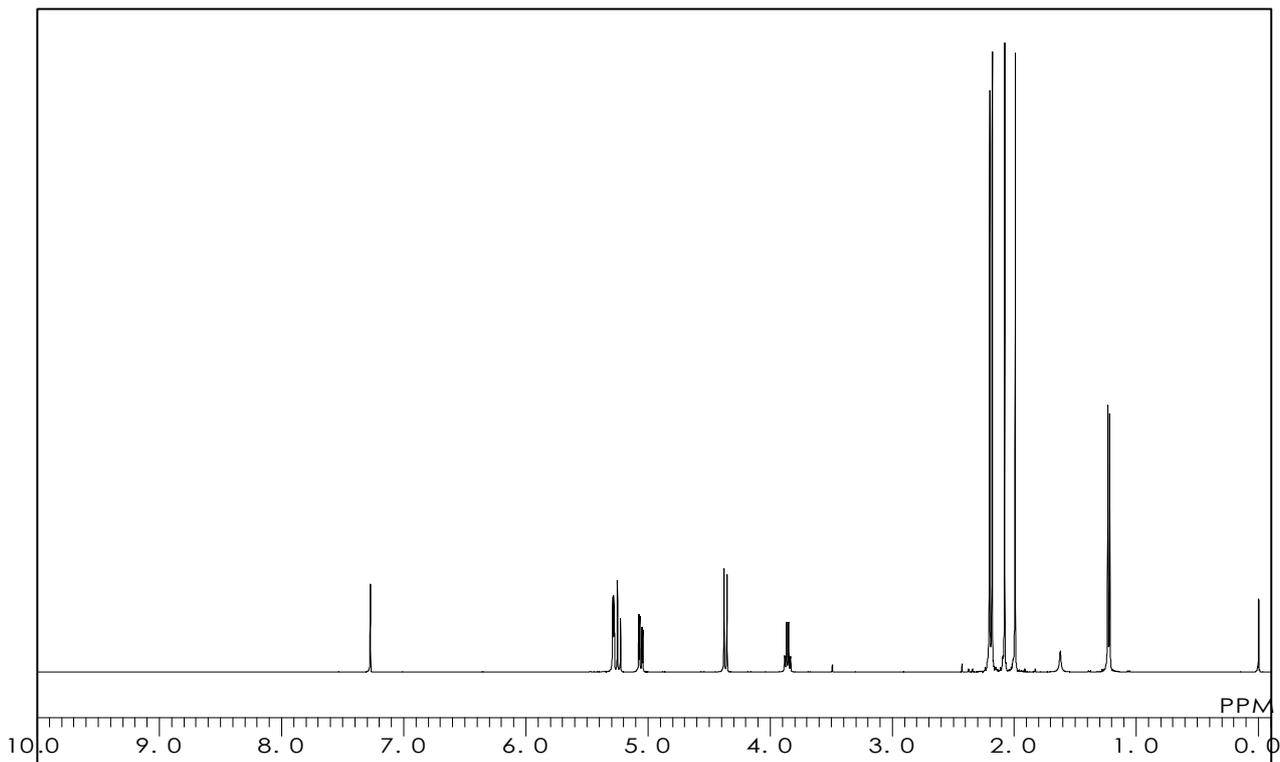
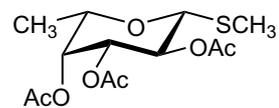
Methyl 2,3,4-Tri-O-acetyl-1-thio-β-L-fucopyranoside

$C_{13}H_{20}O_7S = 320.36$ [84635-54-1]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1628

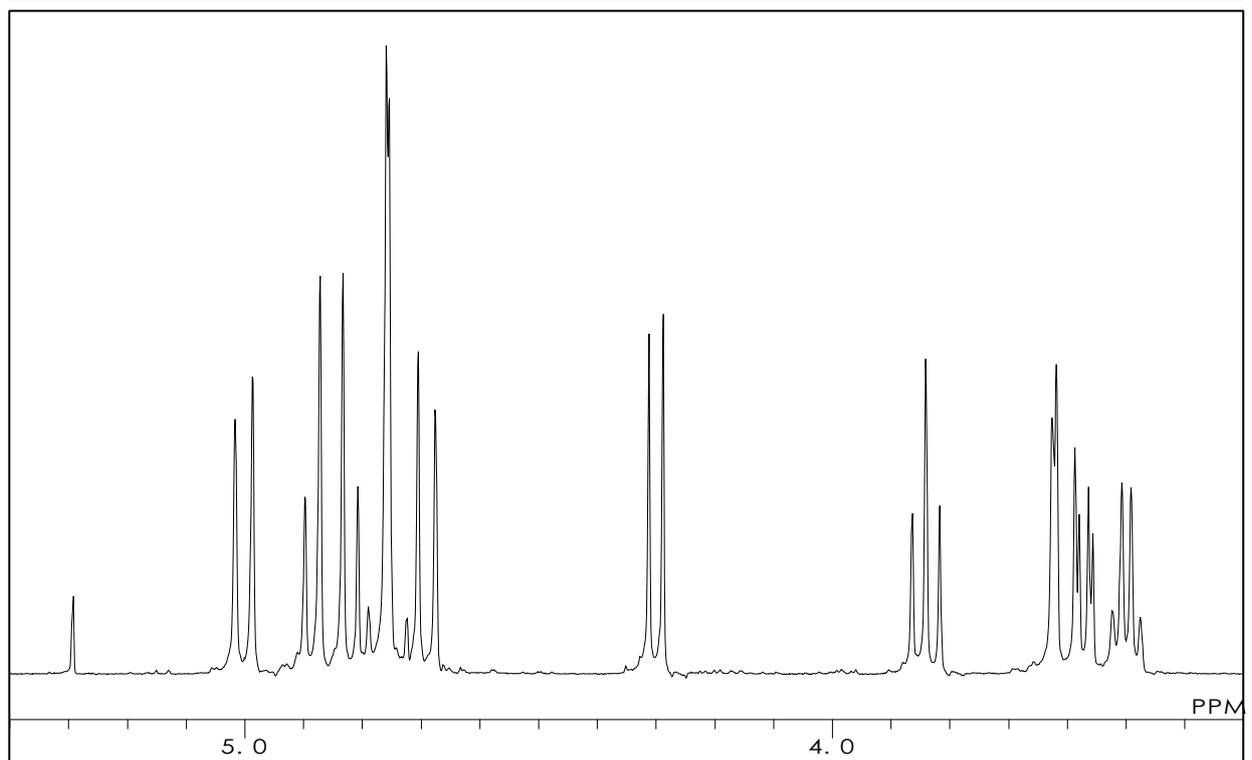
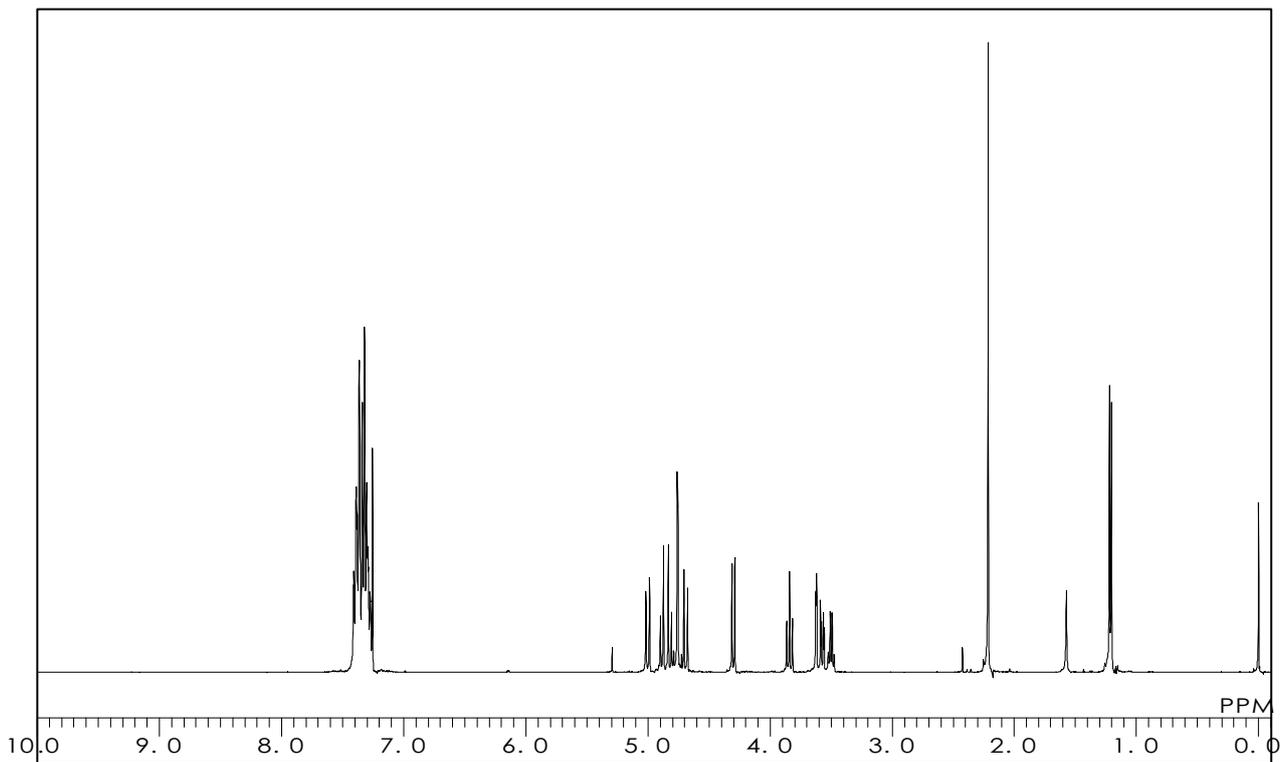
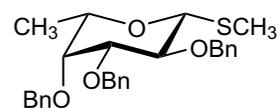
Methyl 2,3,4-Tri-O-benzyl-1-thio-β-L-fucopyranoside

$C_{28}H_{32}O_4S = 464.62$ [107802-80-2]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.4 °C



A3167

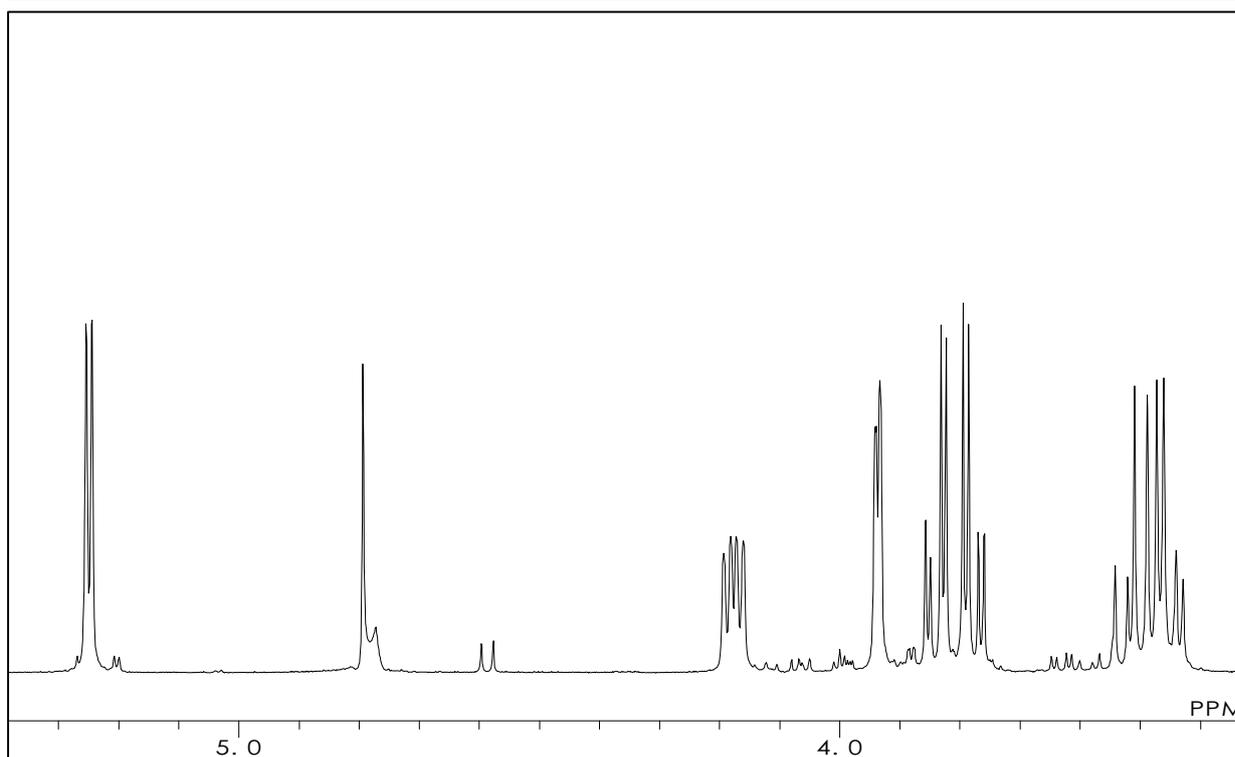
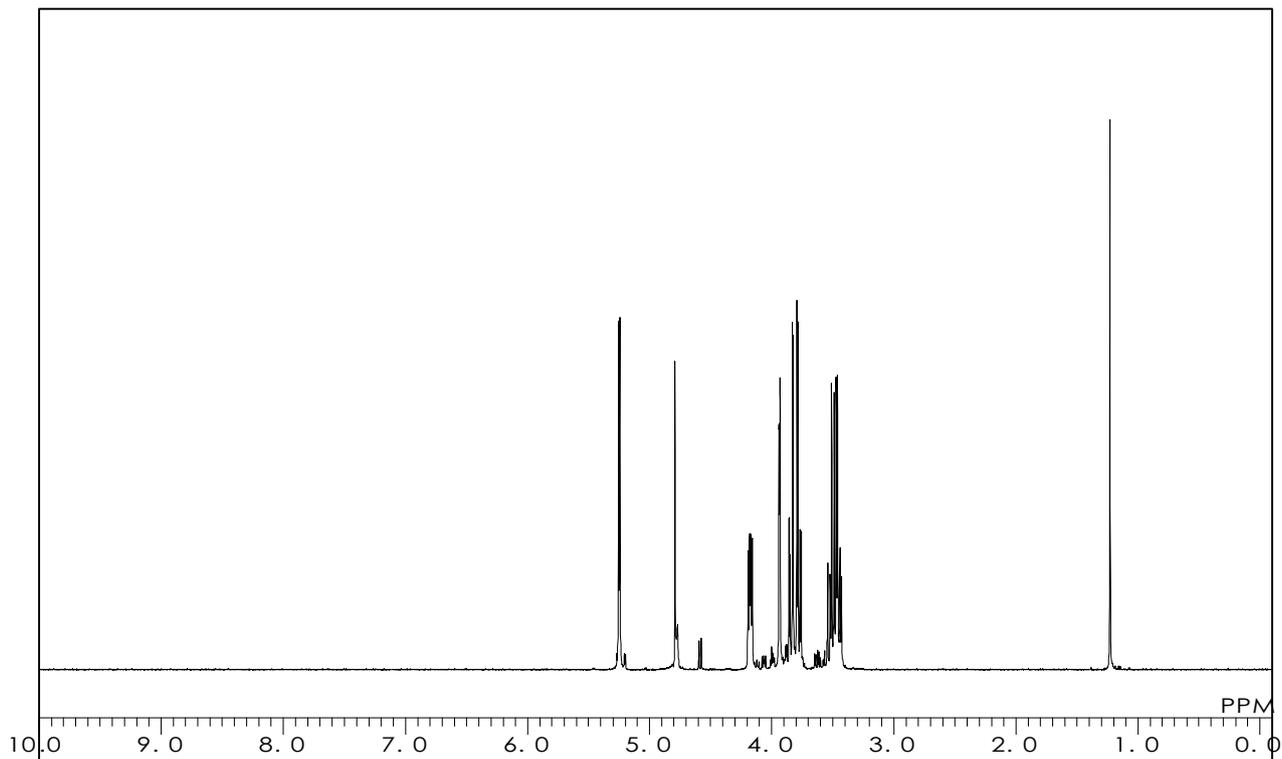
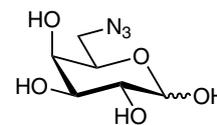
6-Azido-6-deoxy-D-galactopyranose

$C_6H_{11}N_3O_5 = 205.17$ [66927-03-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

D5458

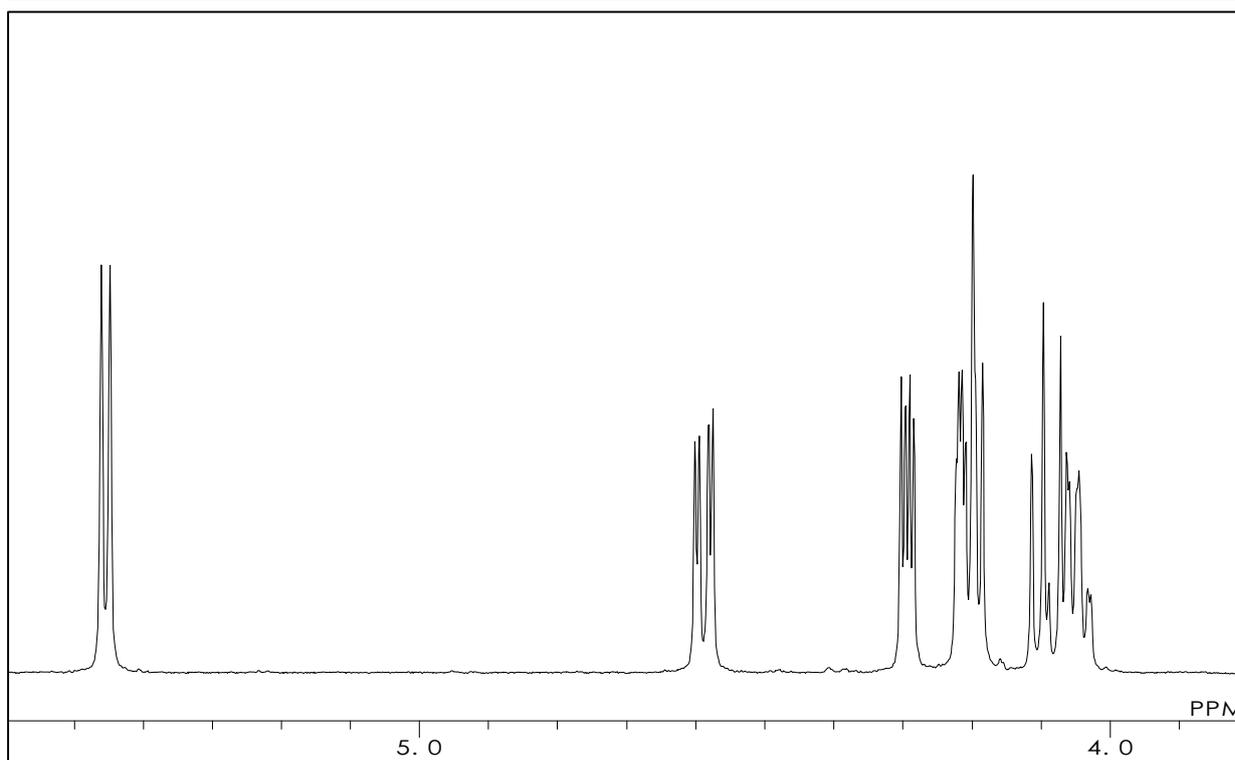
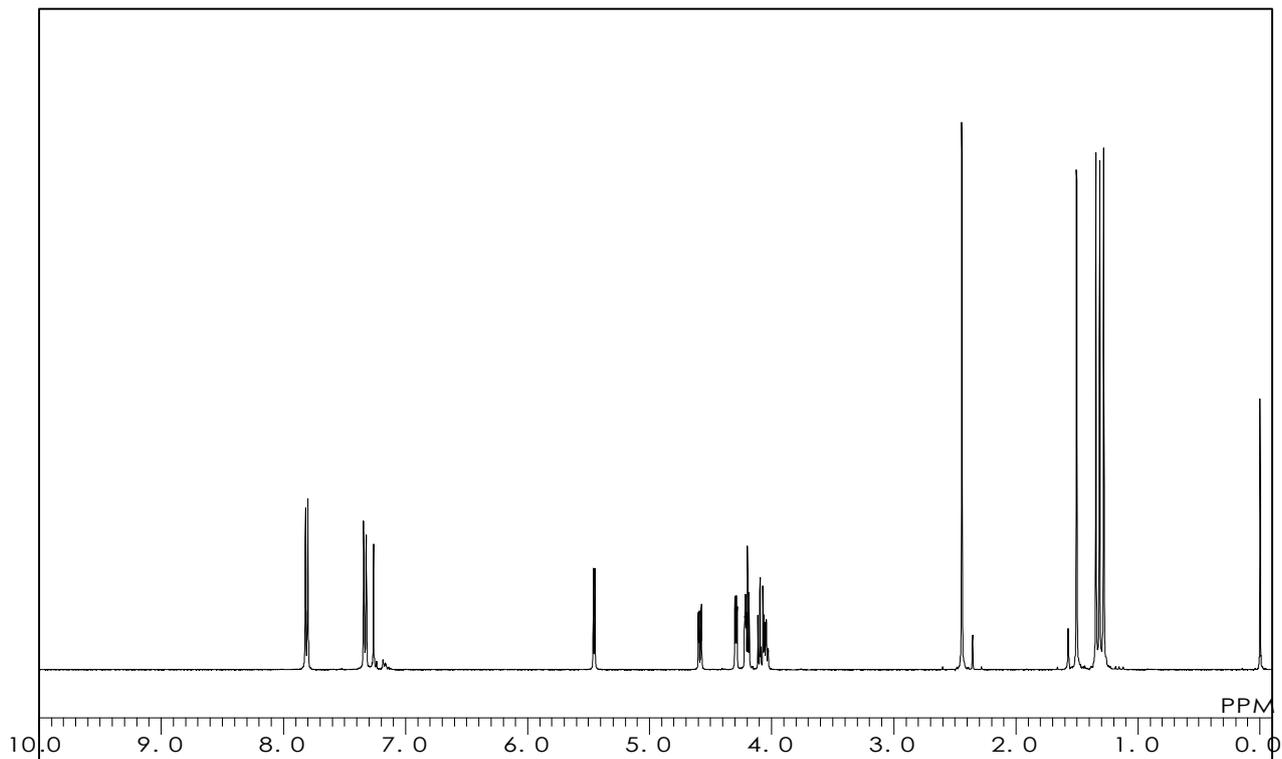
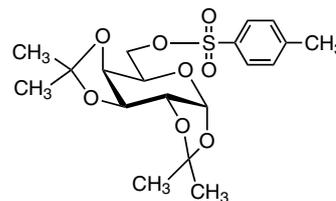
**1,2:3,4-Di-O-isopropylidene-6-O-(p-toluenesulfonyl)-
α-D-galactopyranose**

$C_{19}H_{26}O_8S = 414.47$ [4478-43-7]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 24.8 °C



M1620

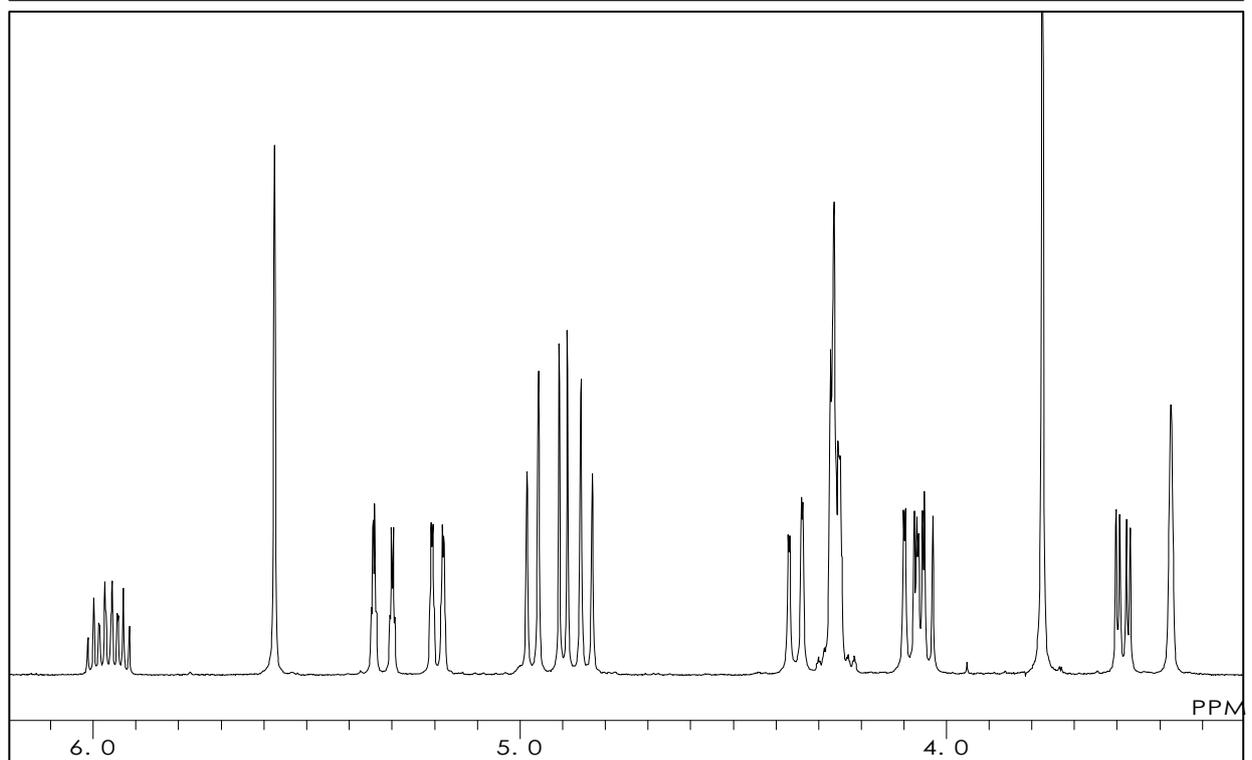
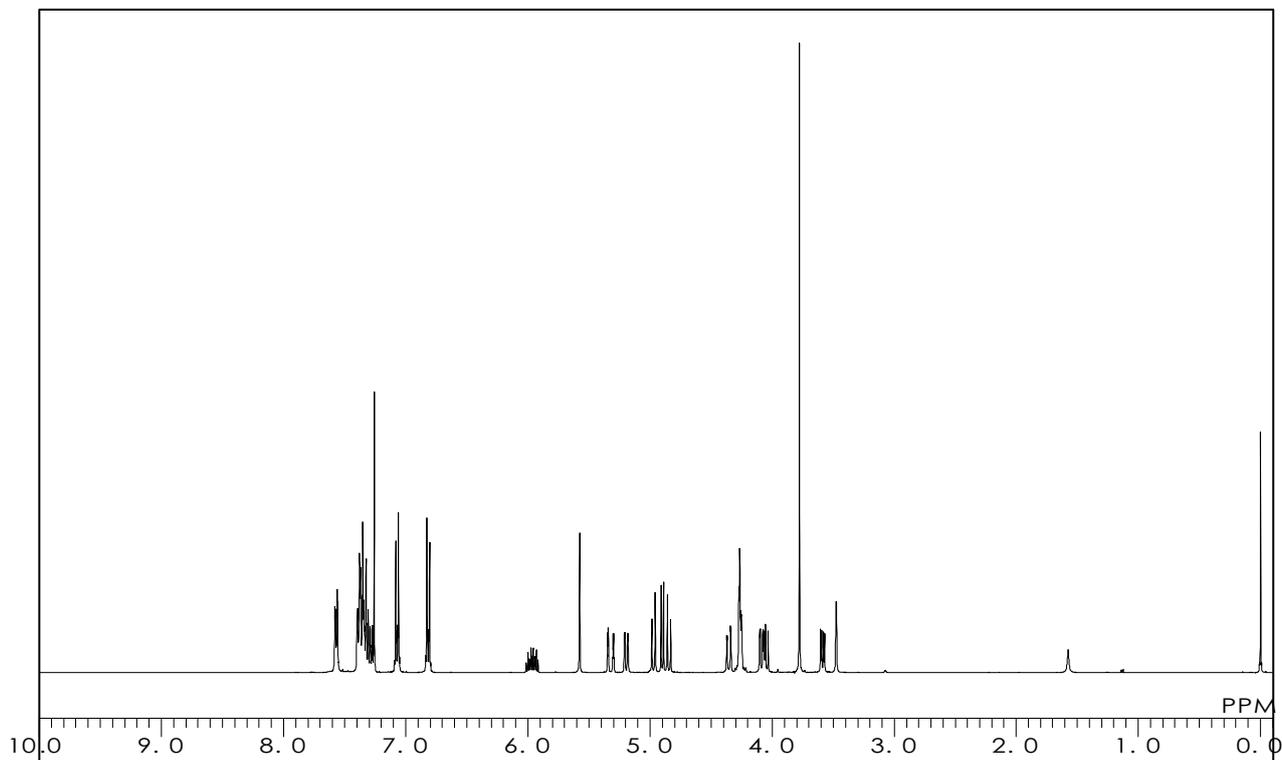
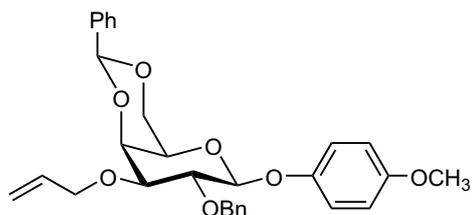
4-Methoxyphenyl 3-O-Allyl-2-O-benzyl-4,6-O-benzylidene- β -D-galactopyranoside

$C_{30}H_{32}O_7 = 504.58$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1589

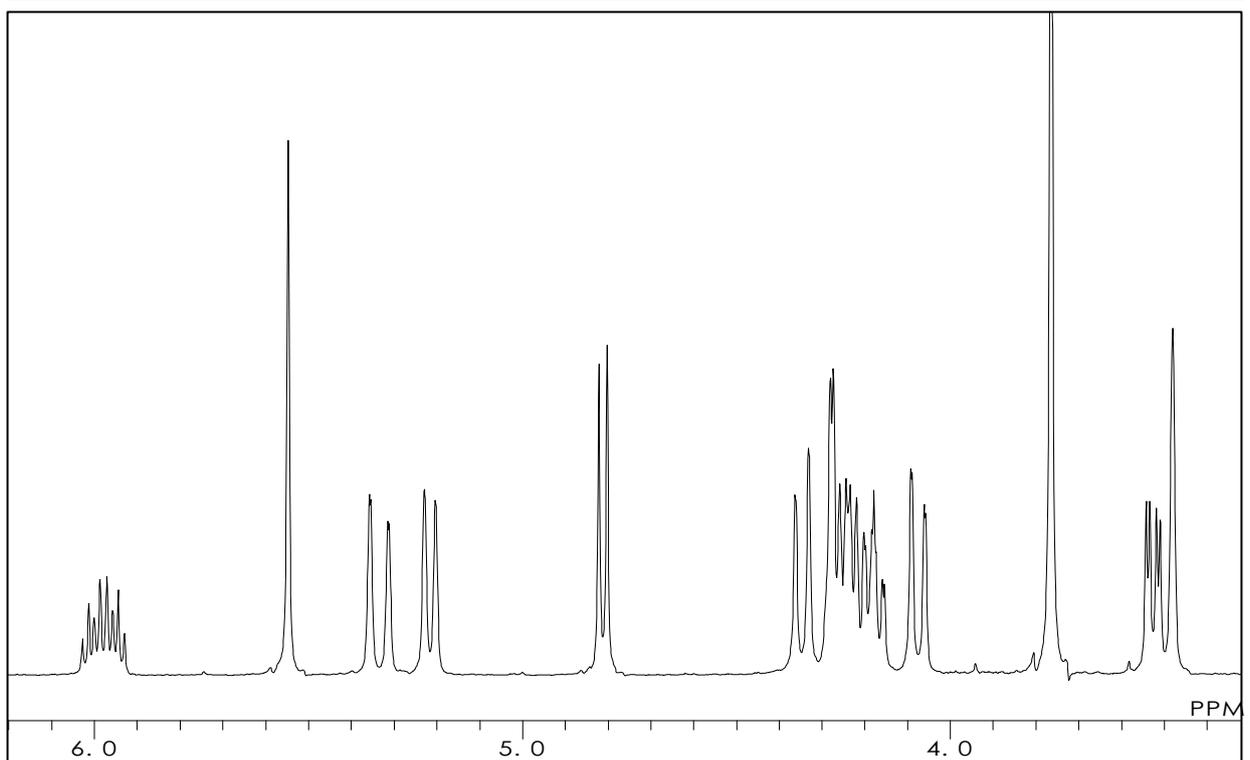
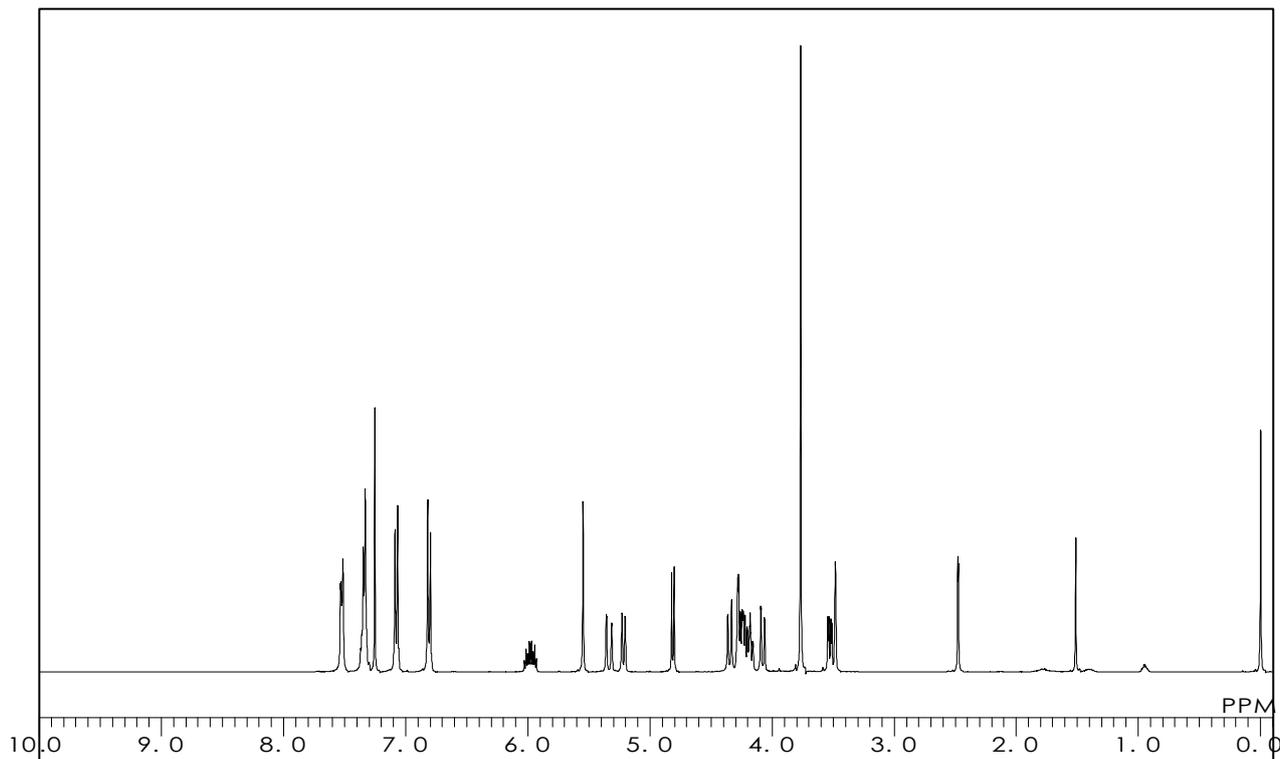
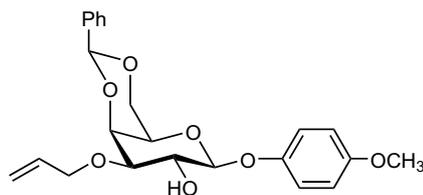
4-Methoxyphenyl 3-O-Allyl-4,6-O-benzylidene-β-D-galactopyranoside

C₂₃H₂₆O₇ = 414.45 [400091-05-6]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 40.0 °C



M1590

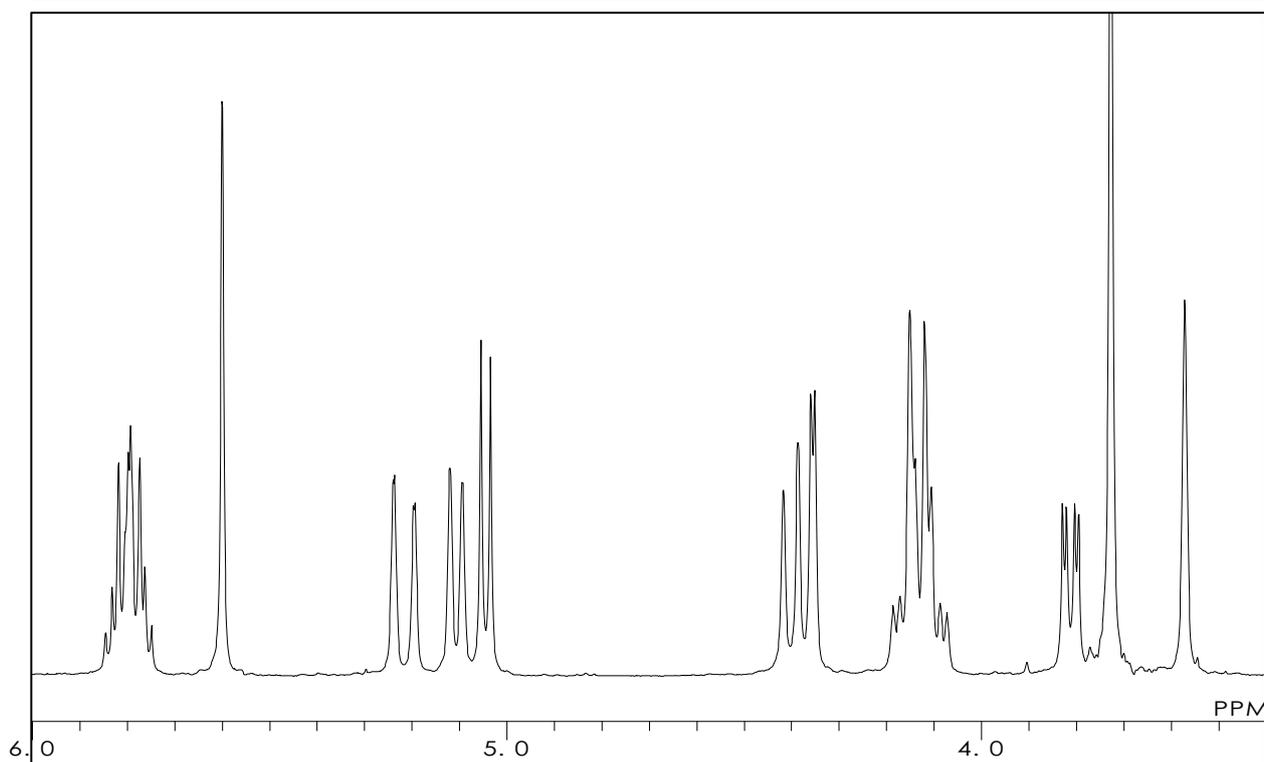
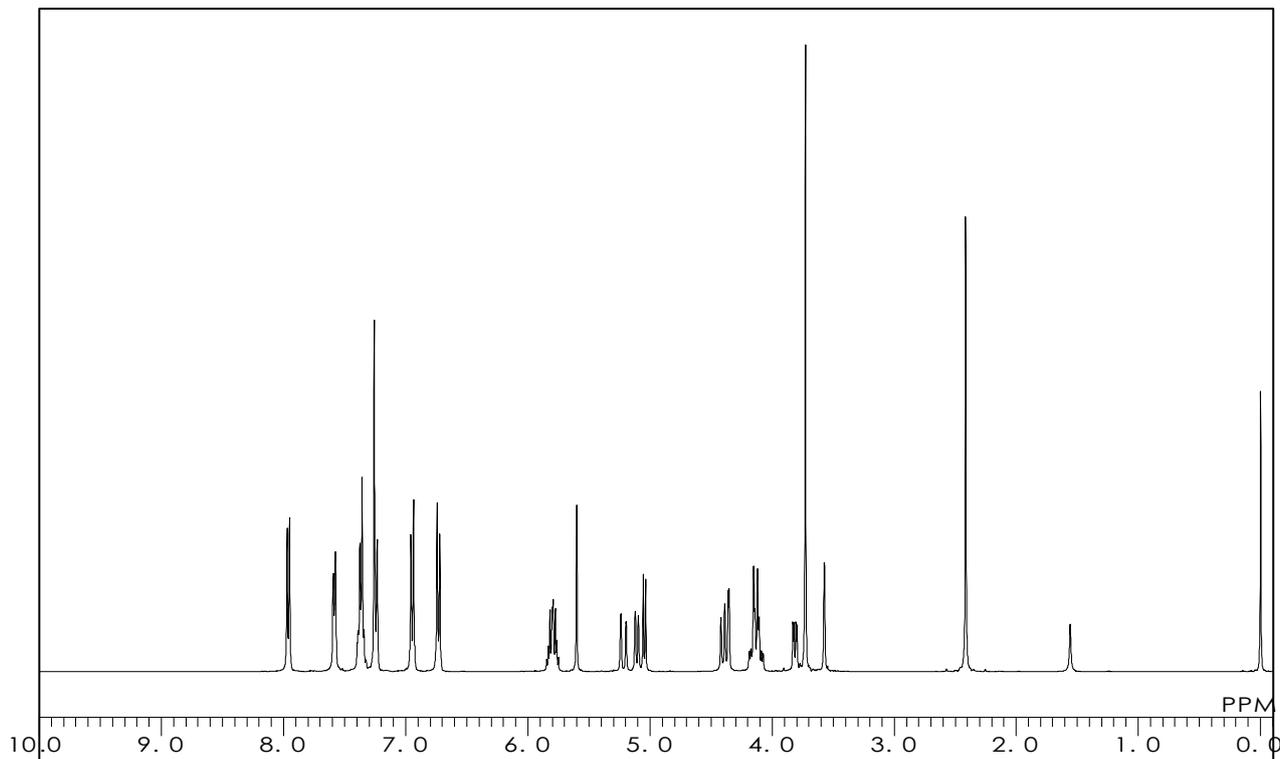
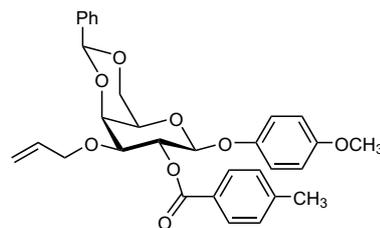
4-Methoxyphenyl 3-O-Allyl-4,6-O-benzylidene-2-O-(4-methylbenzoyl)-β-D-galactopyranoside

$C_{31}H_{32}O_8 = 532.59$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1482

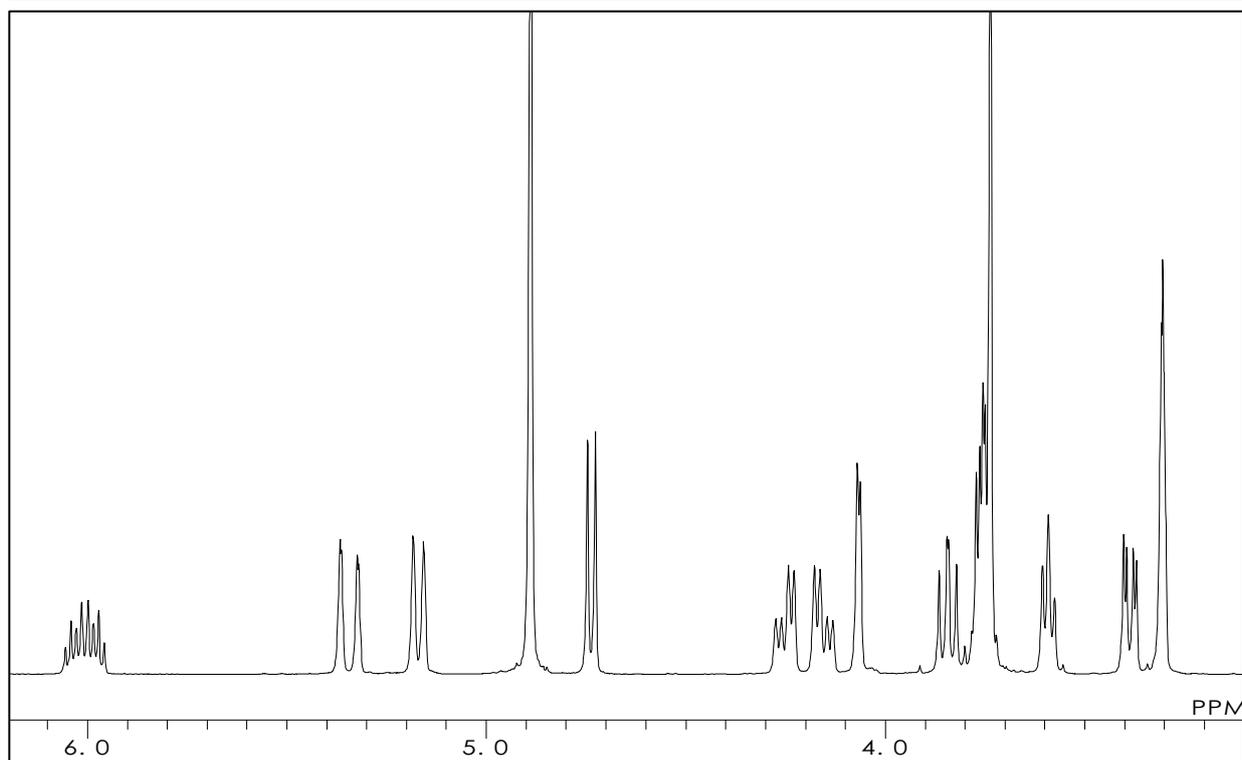
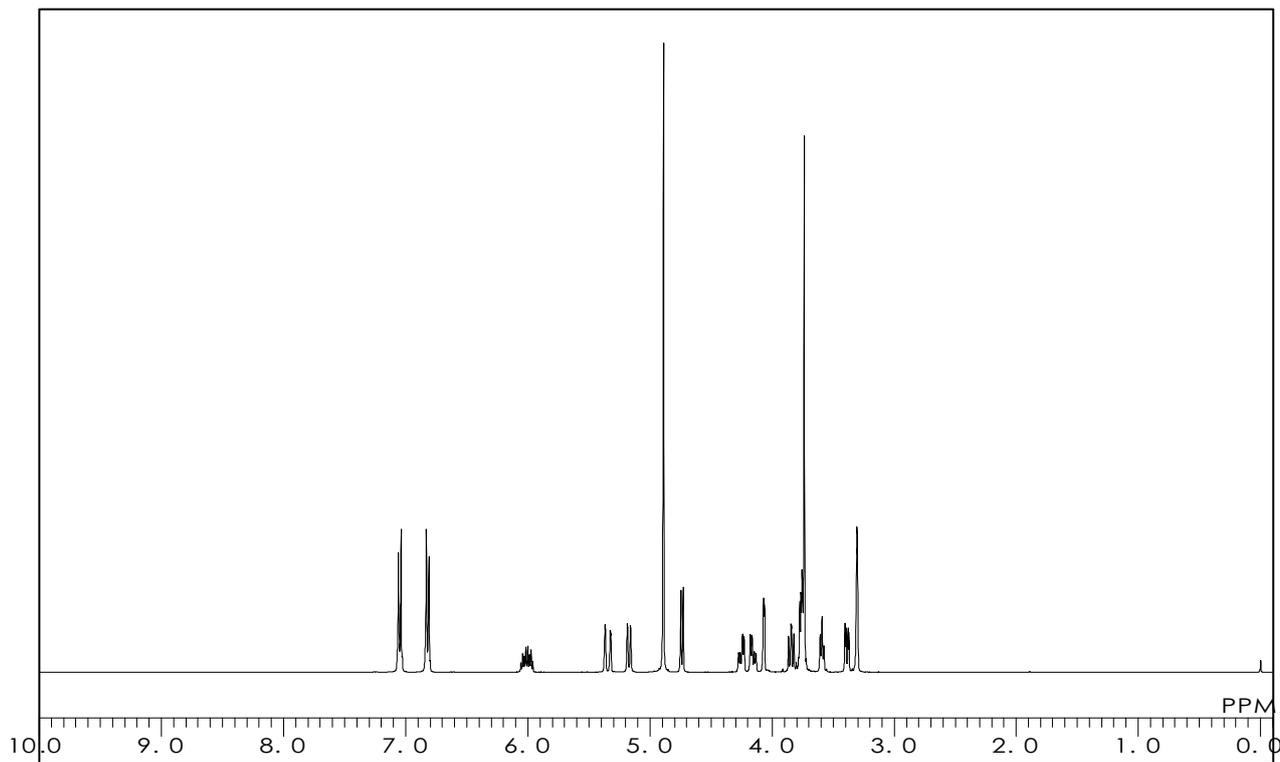
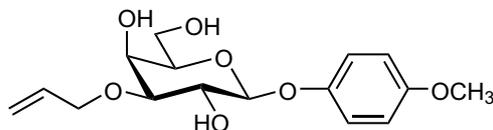
4-Methoxyphenyl 3-O-Allyl-β-D-galactopyranoside

C₁₆H₂₂O₇ = 326.35 [144985-19-3]

Solvent : CD₃OD

Internal Standard : Si(CH₃)₄

Measured Temperature : 19.9 °C



M1725

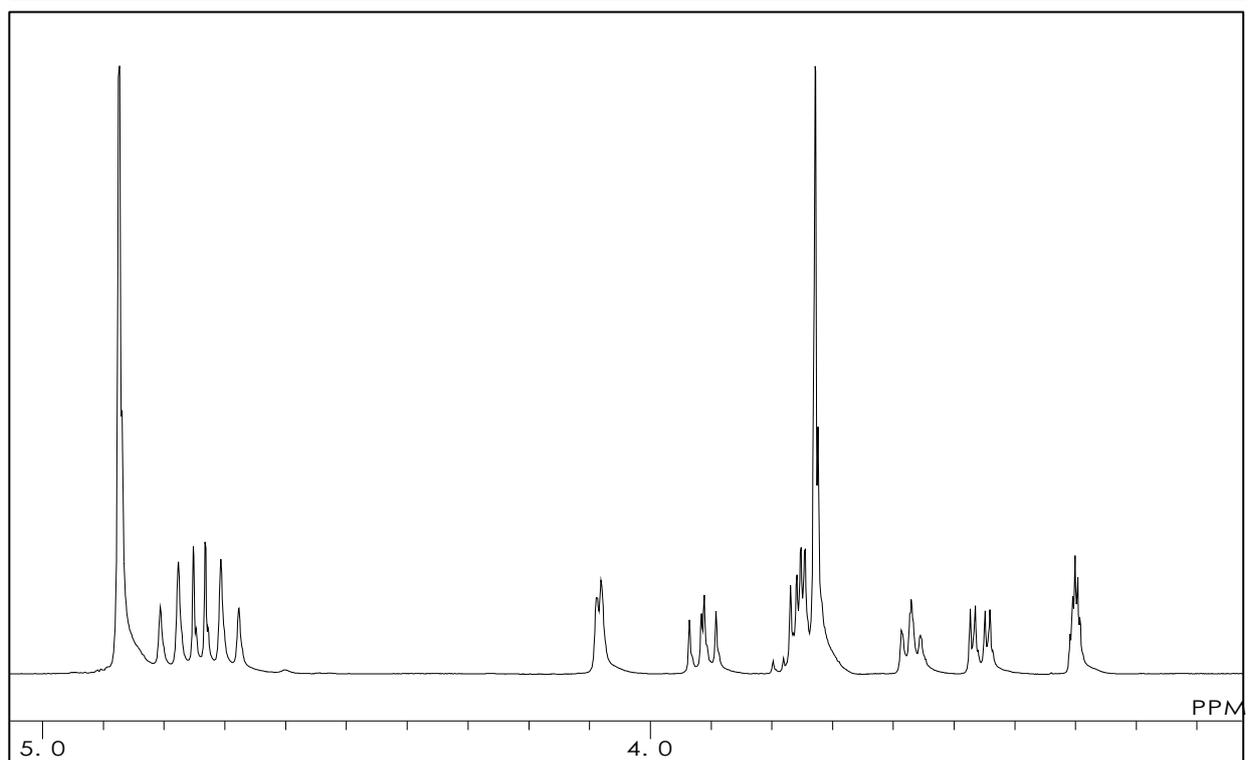
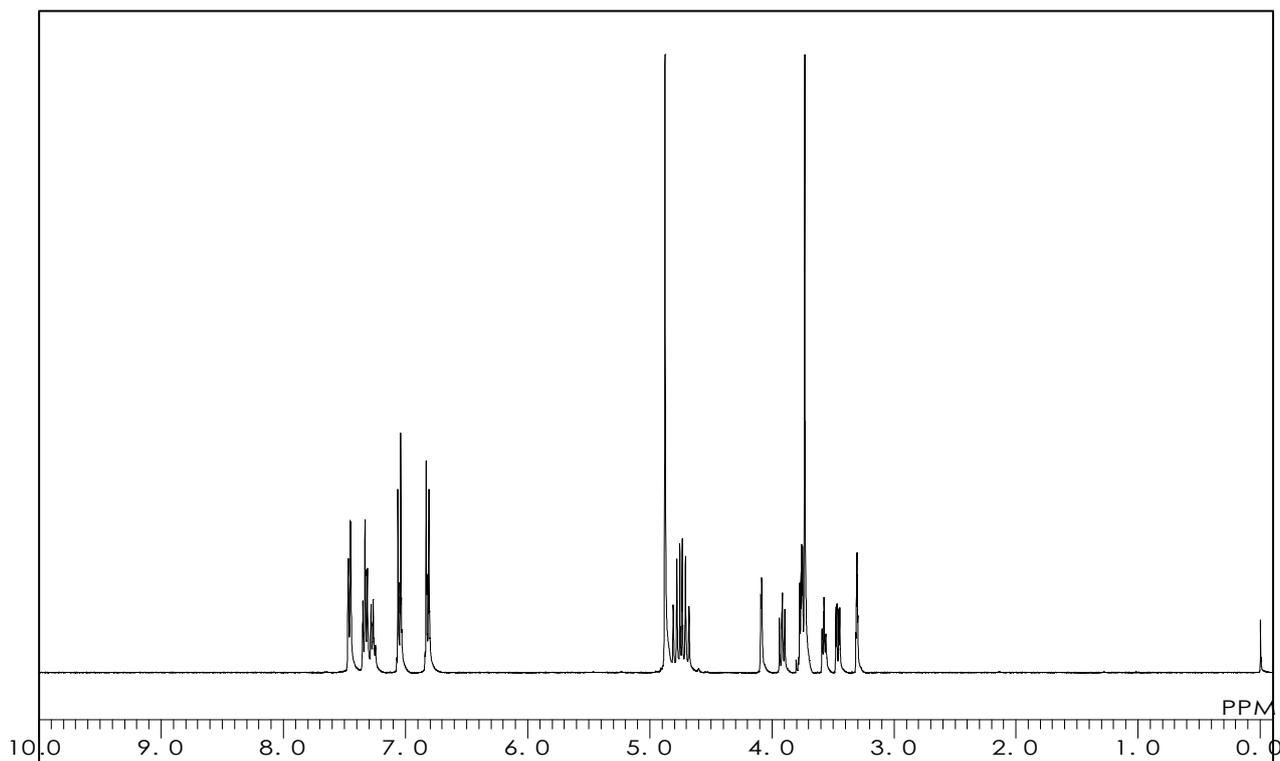
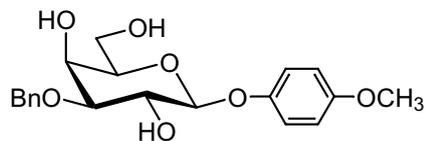
4-Methoxyphenyl 3-O-Benzyl-β-D-galactopyranoside

C₂₀H₂₄O₇ = 376.41 [383905-60-0]

Solvent : CD₃OD

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1710

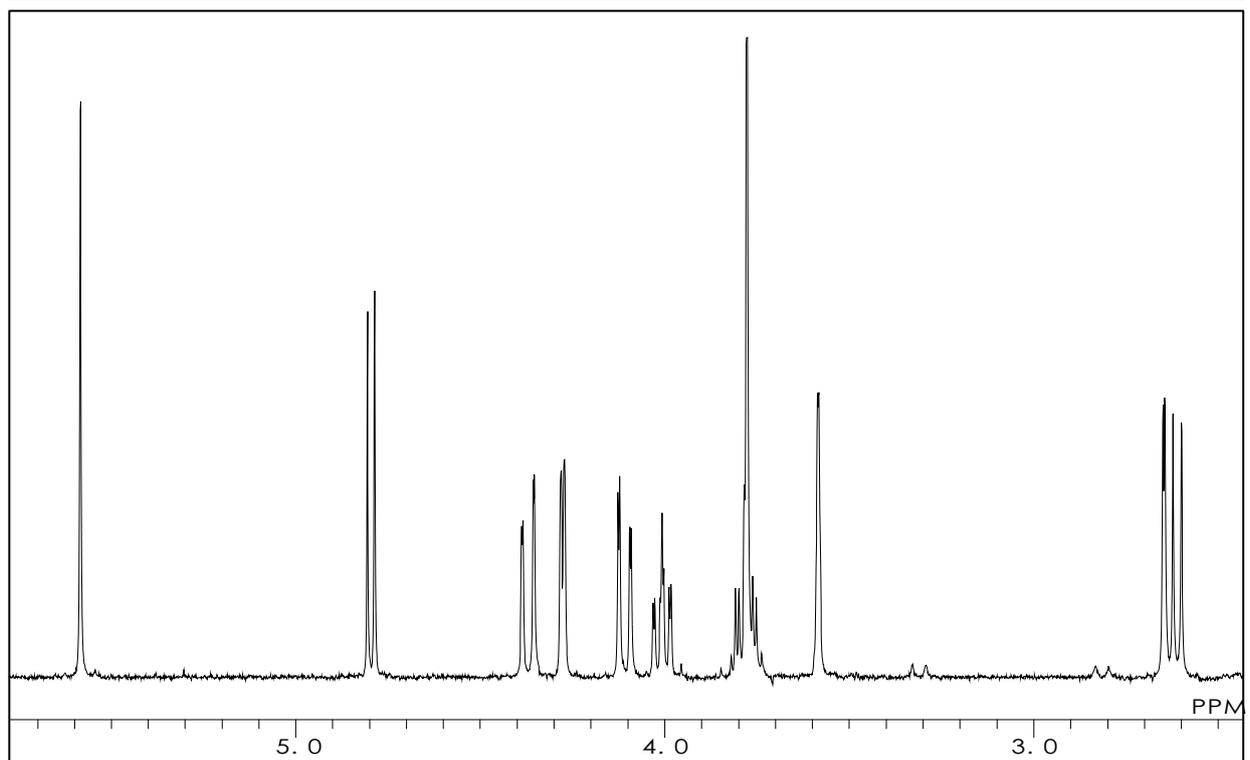
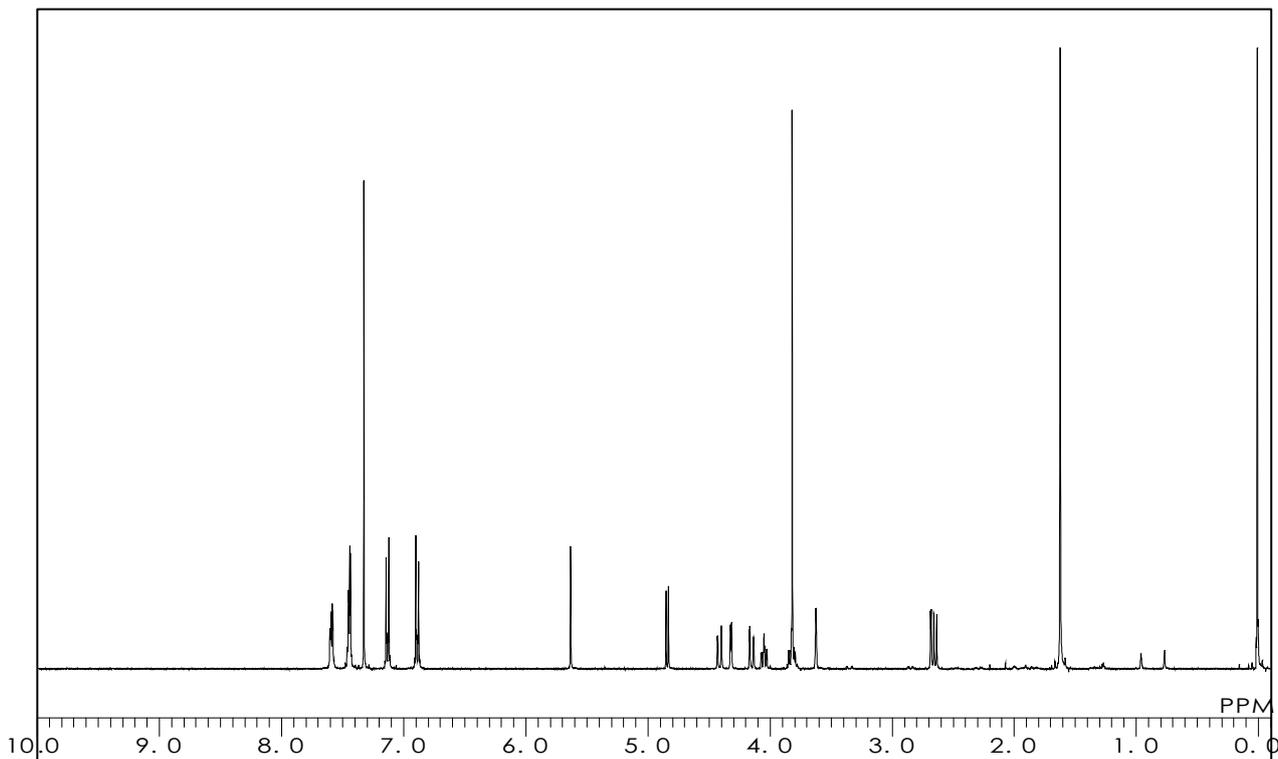
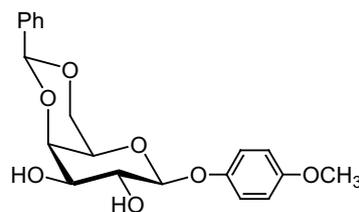
4-Methoxyphenyl 4,6-O-Benzylidene-β-D-galactopyranoside

C₂₀H₂₂O₇ = 374.39 [176299-96-0]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.0 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

M1597

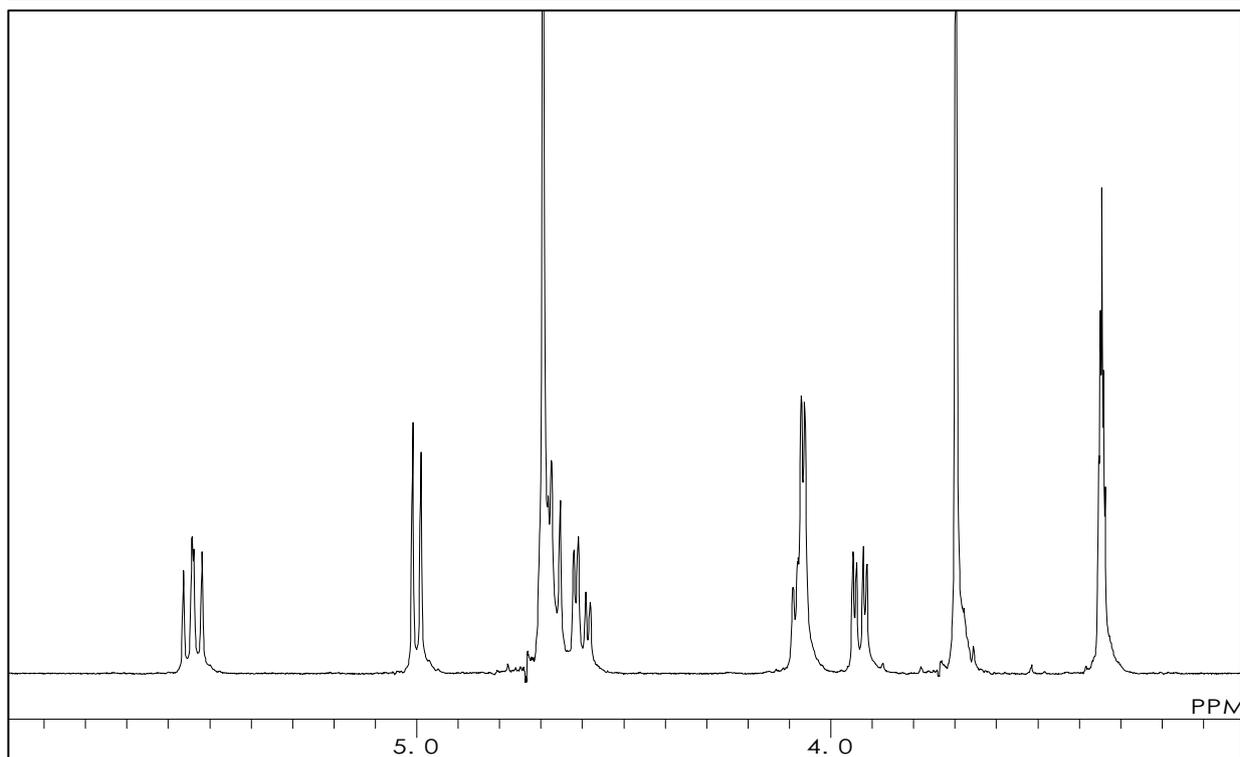
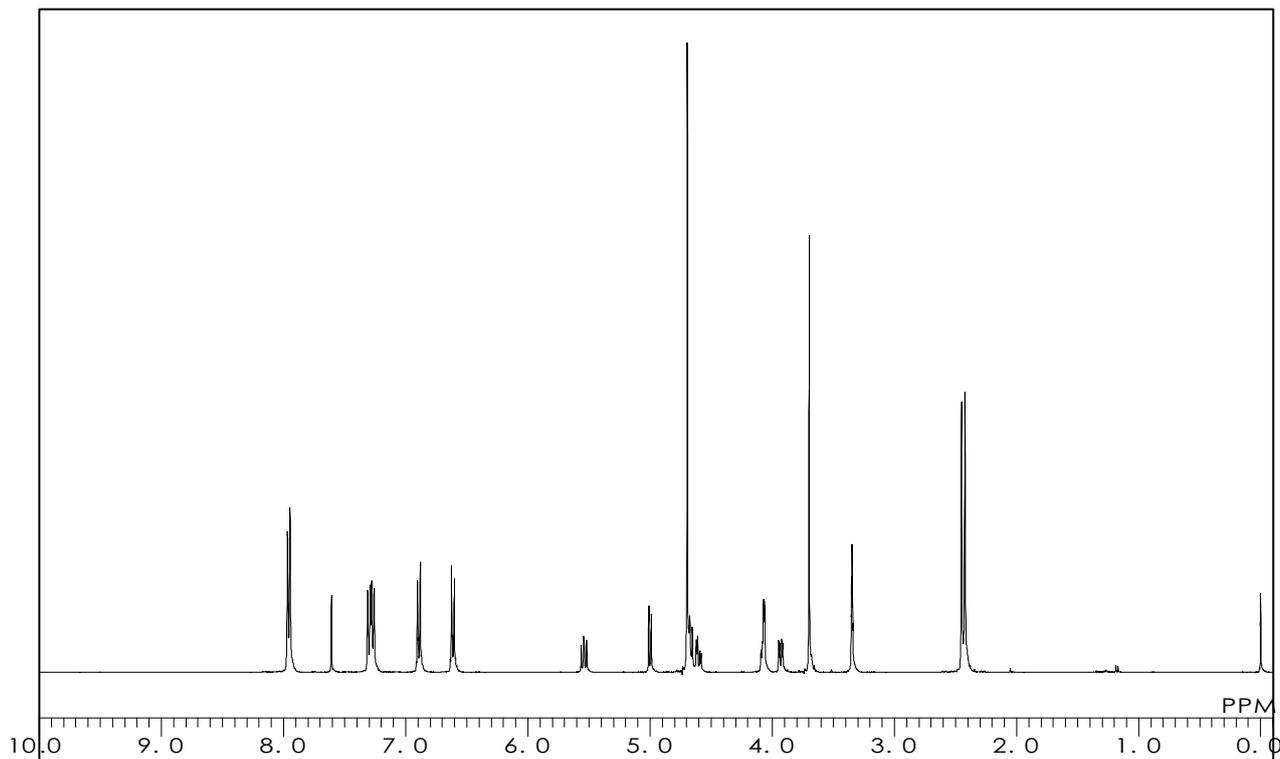
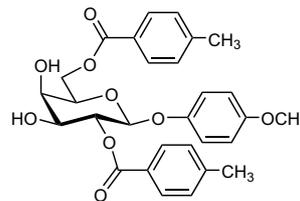
4-Methoxyphenyl 2,6-Bis-O-(4-methylbenzoyl)- β -D-galactopyranoside

$C_{29}H_{30}O_9 = 522.55$

Solvent : $CD_3OD/CDCl_3 = 1/1$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1634

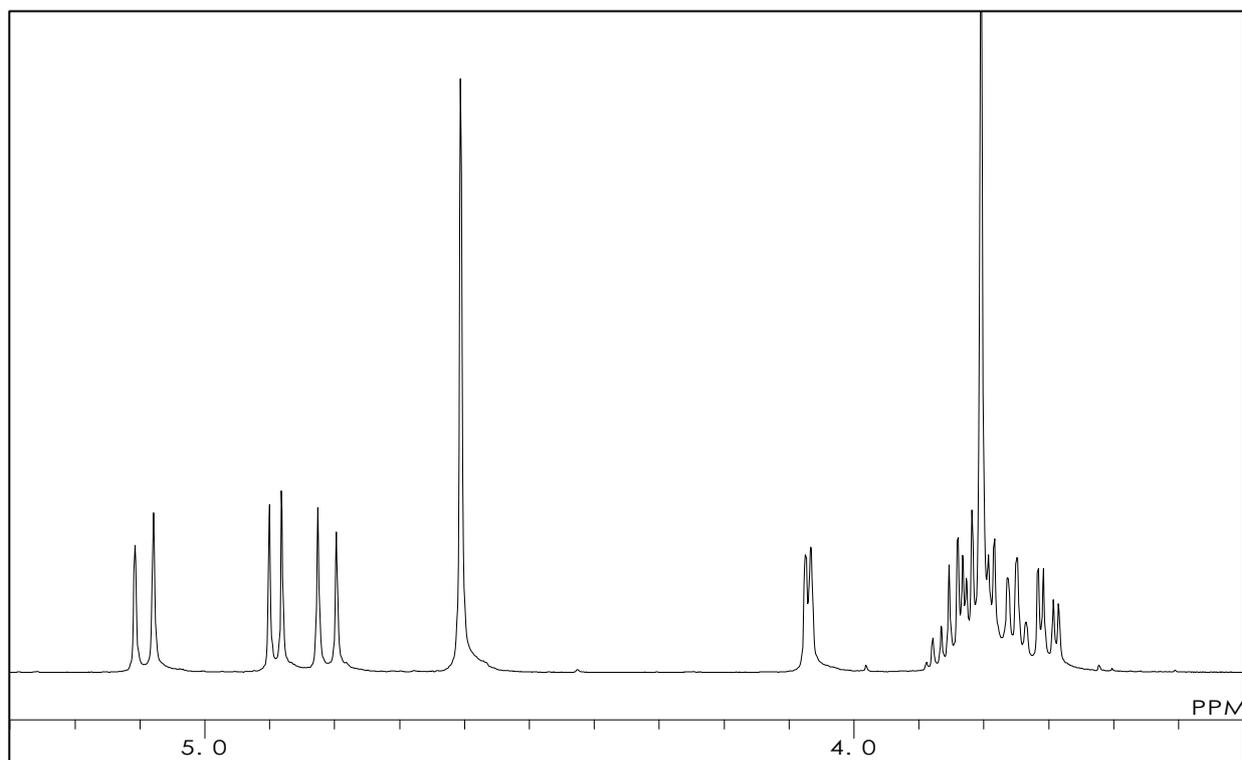
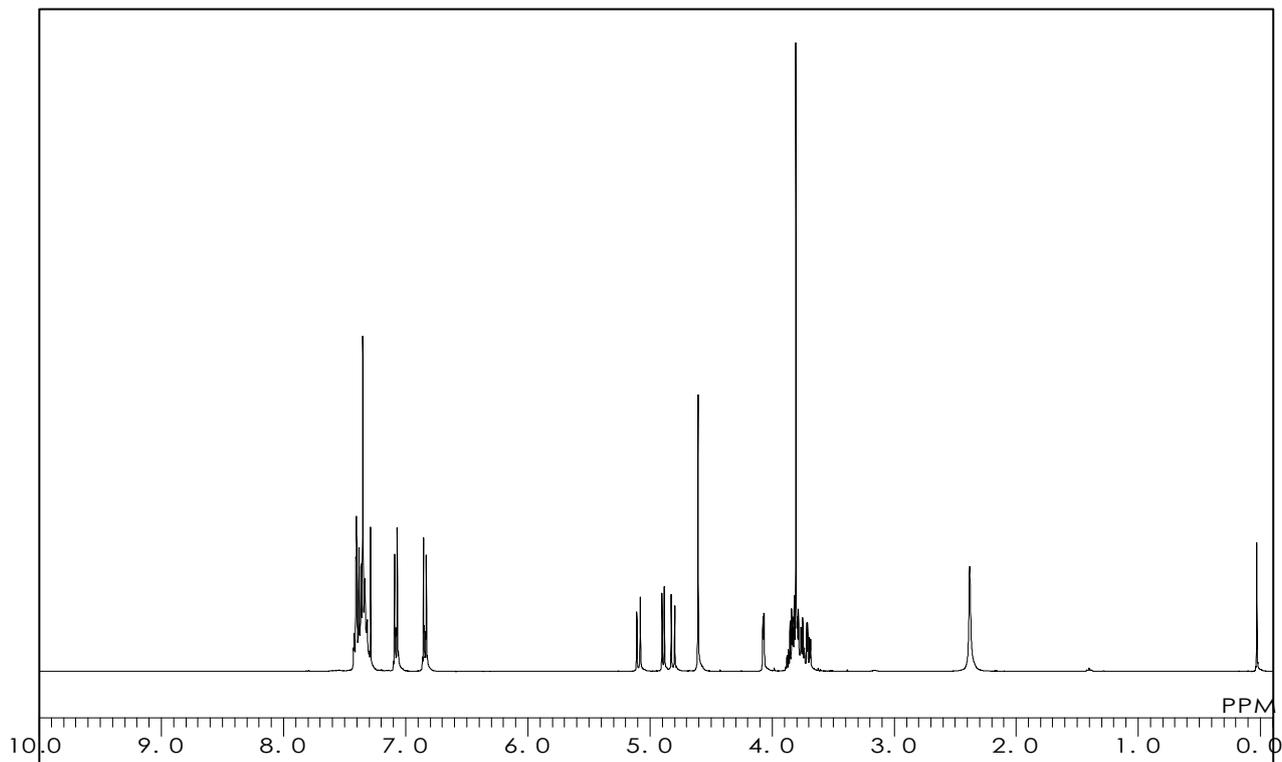
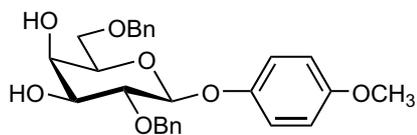
4-Methoxyphenyl 2,6-Di-O-benzyl-β-D-galactopyranoside

C₂₇H₃₀O₇ = 466.53 [159922-50-6]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.3 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

M1633

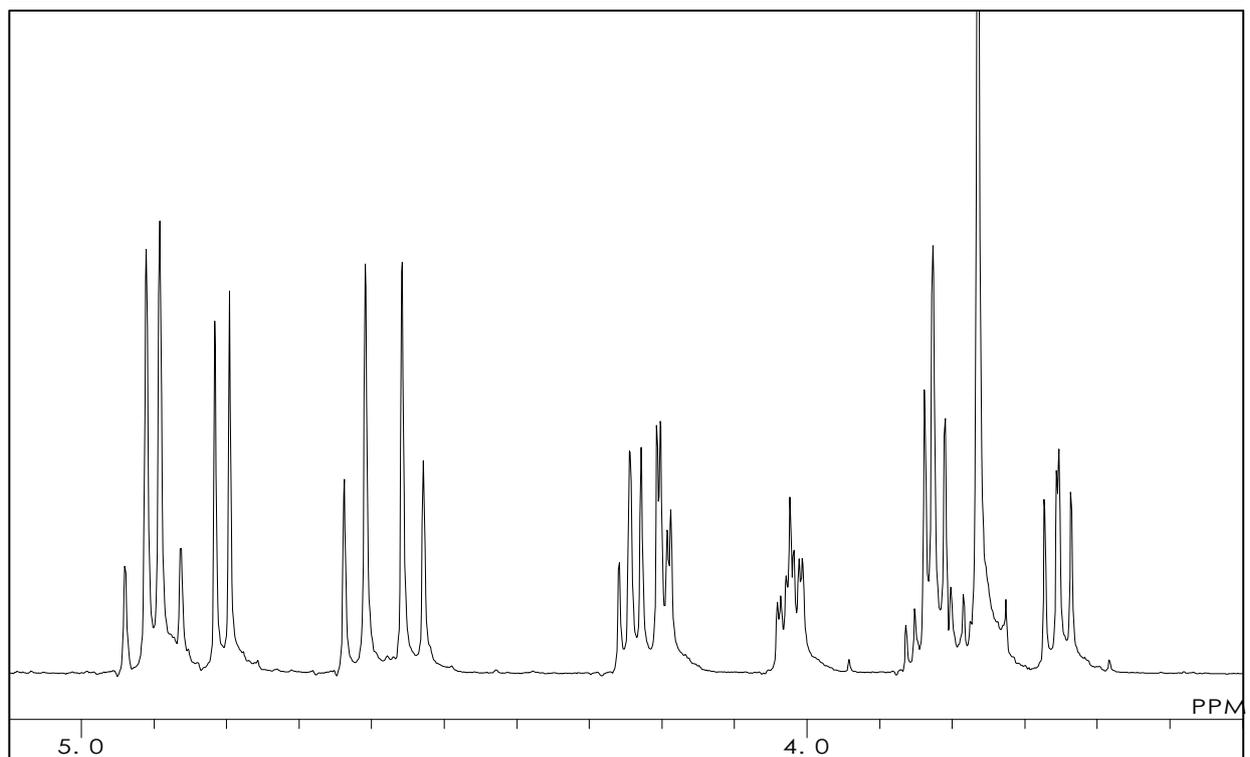
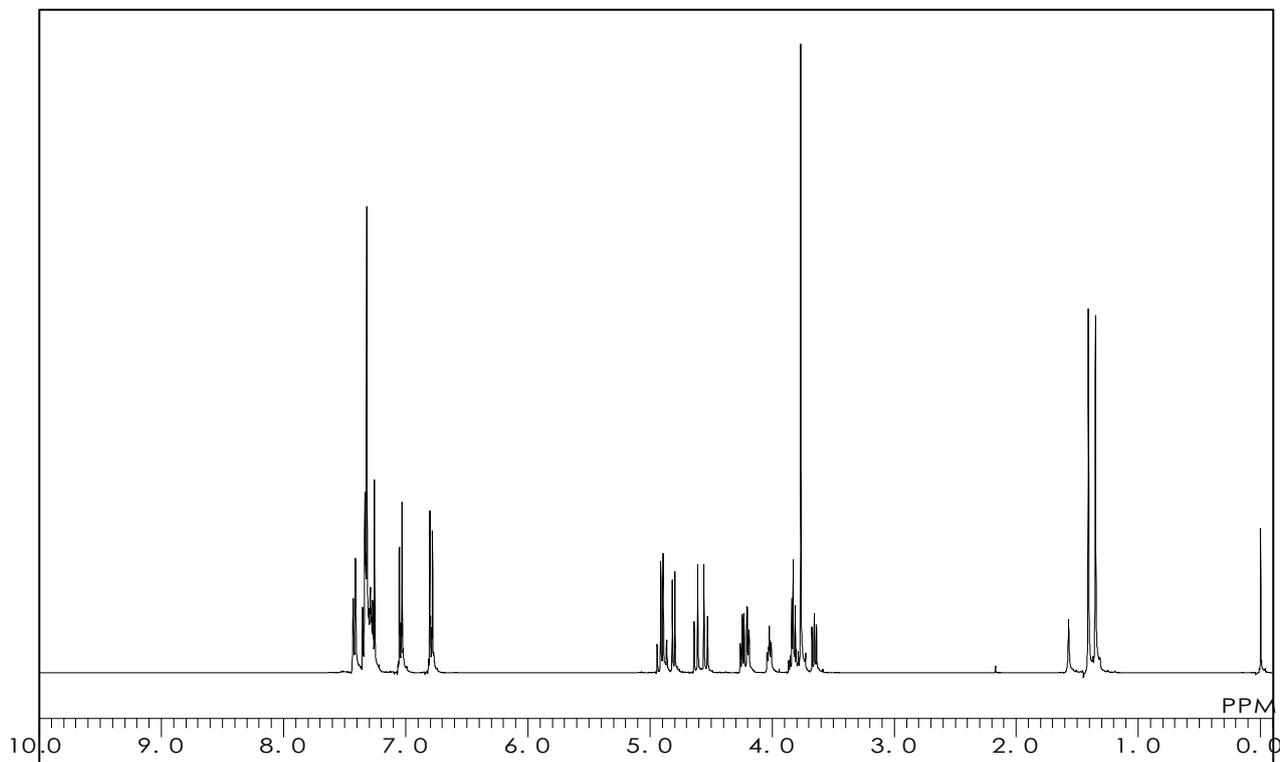
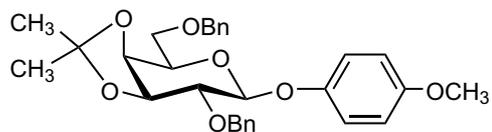
4-Methoxyphenyl 2,6-Di-O-benzyl-3,4-O-isopropylidene- β -D-galactopyranoside

$C_{30}H_{34}O_7 = 506.60$ [159922-68-6]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1481

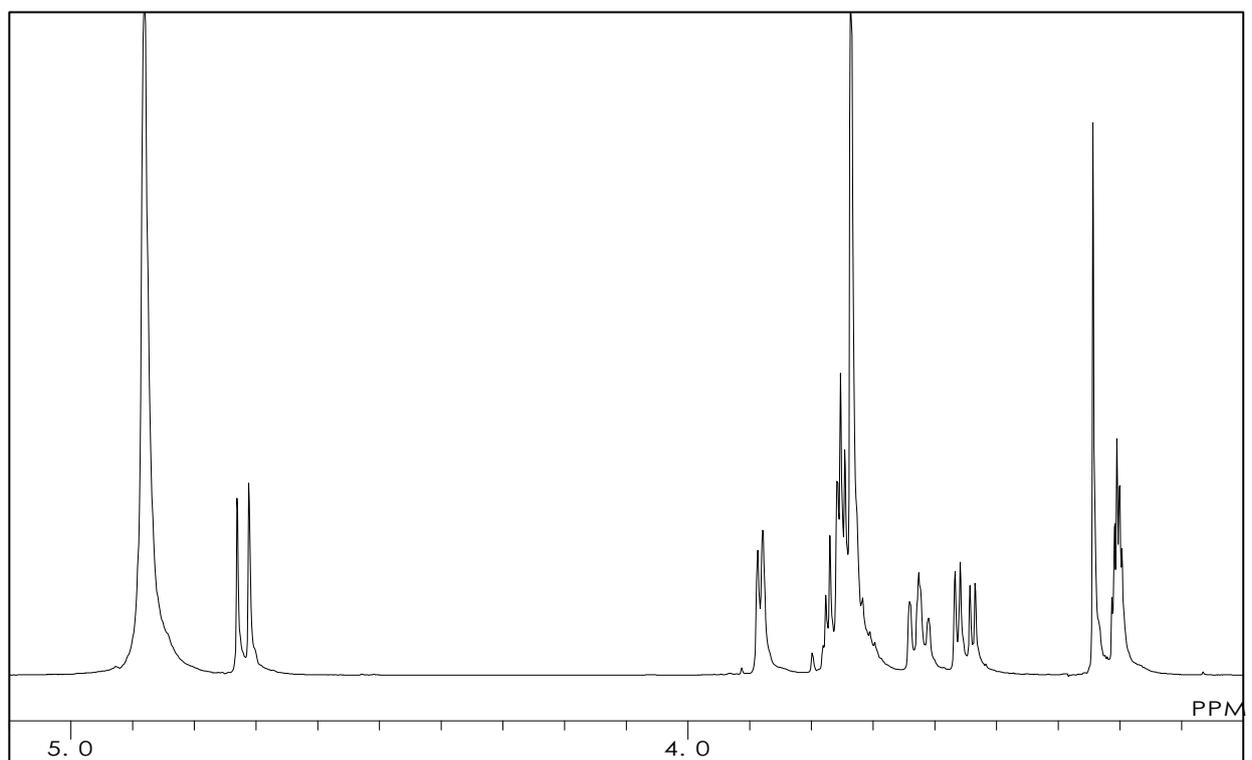
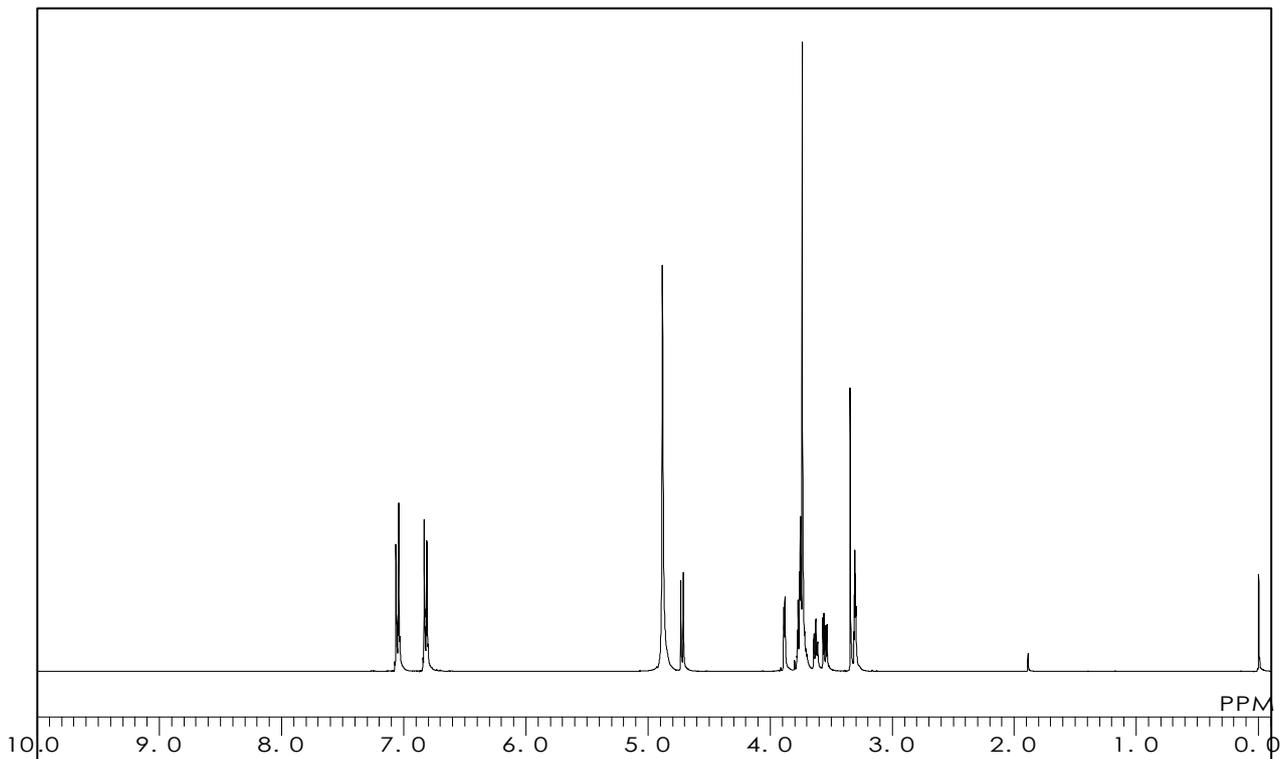
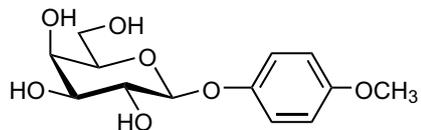
4-Methoxyphenyl β -D-Galactopyranoside

$C_{13}H_{18}O_7 = 286.28$ [3150-20-7]

Solvent : CD_3OD

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.2 °C



M1596

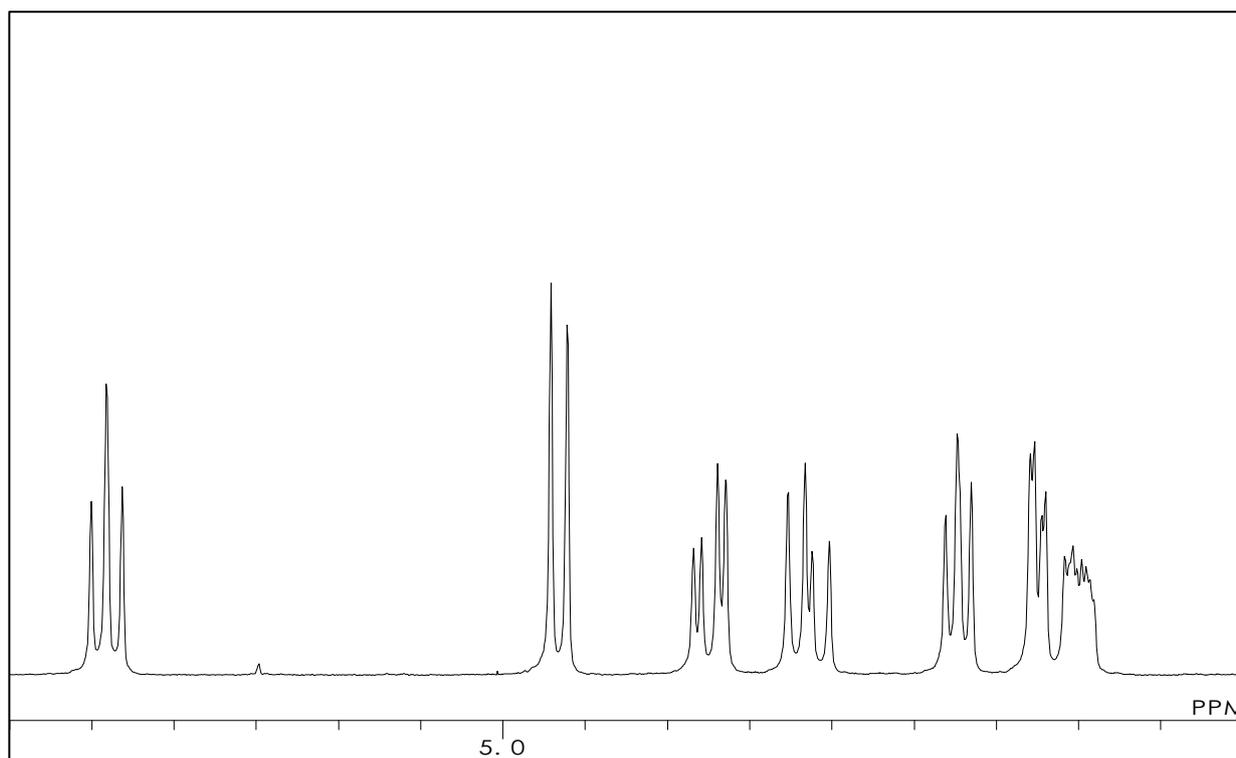
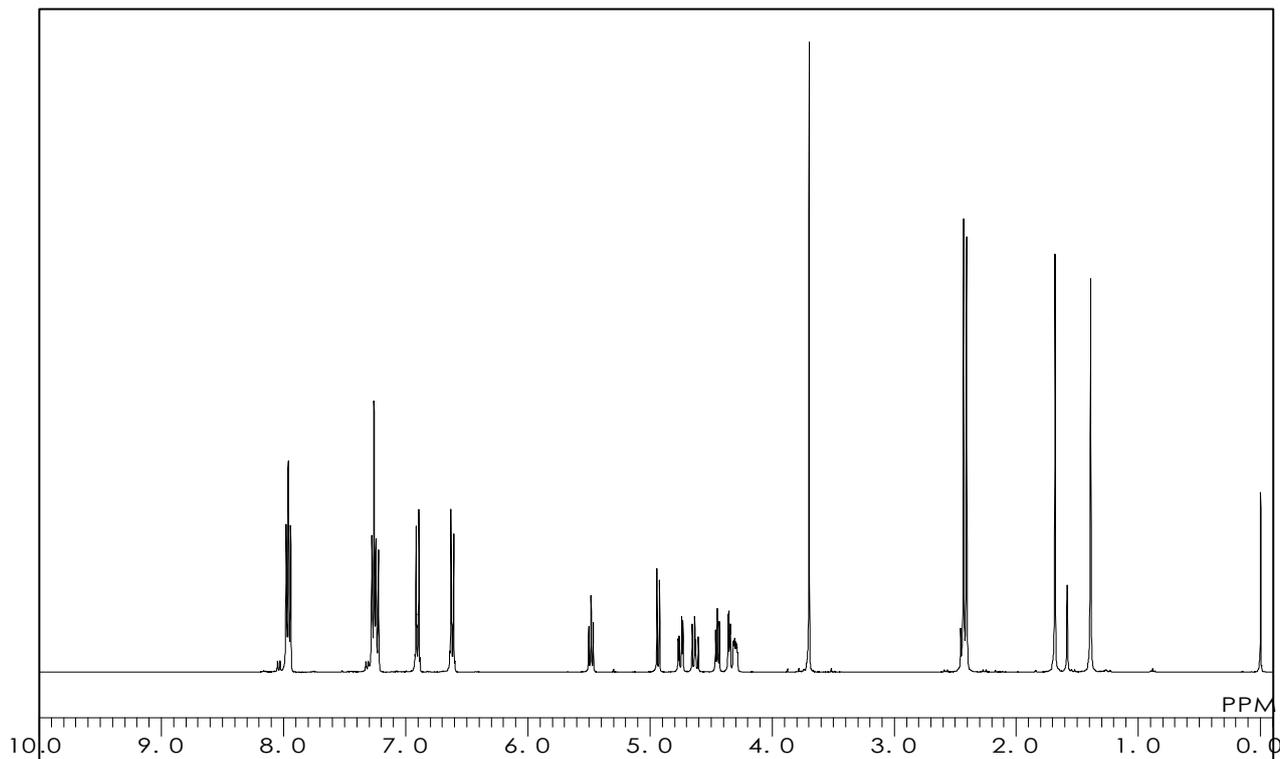
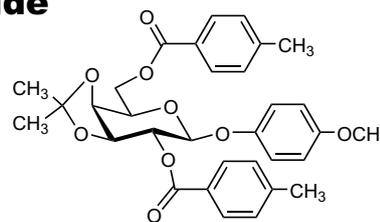
4-Methoxyphenyl 3,4-O-Isopropylidene-2,6-bis-O-(4-methylbenzoyl)- β -D-galactopyranoside

$C_{32}H_{34}O_9 = 562.62$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1593

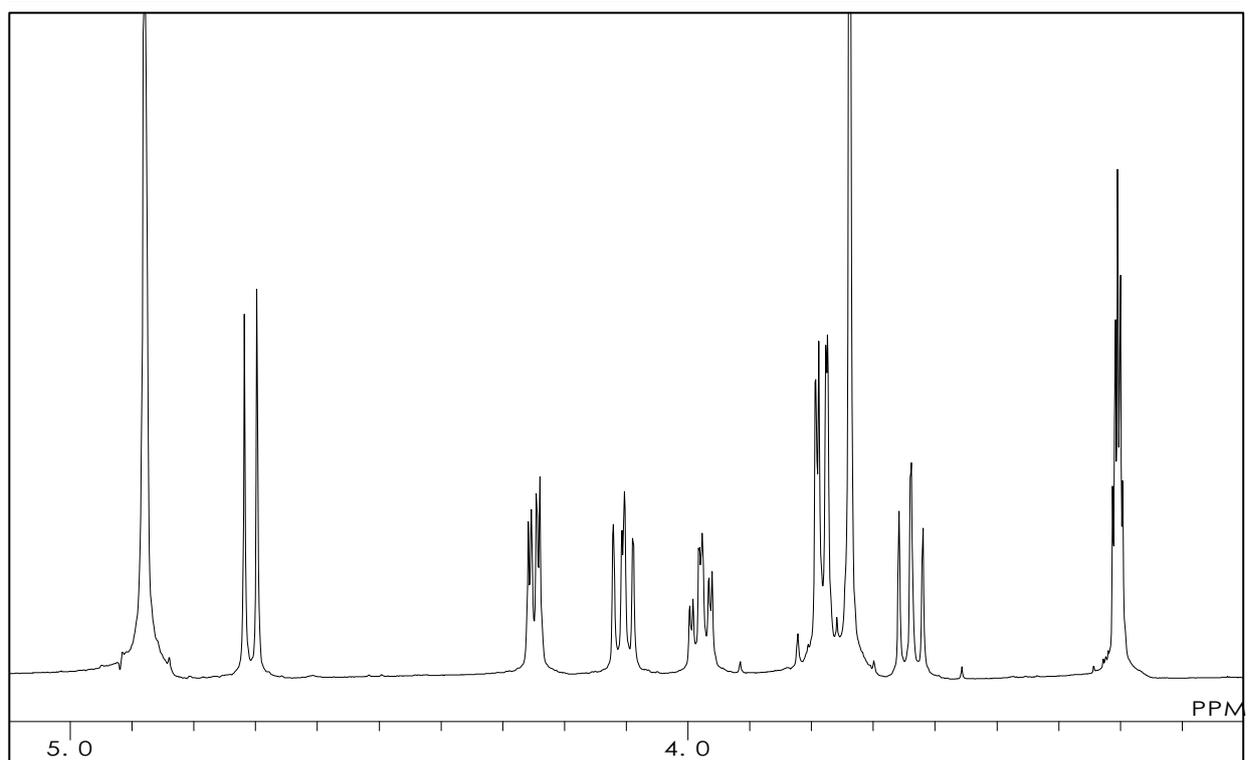
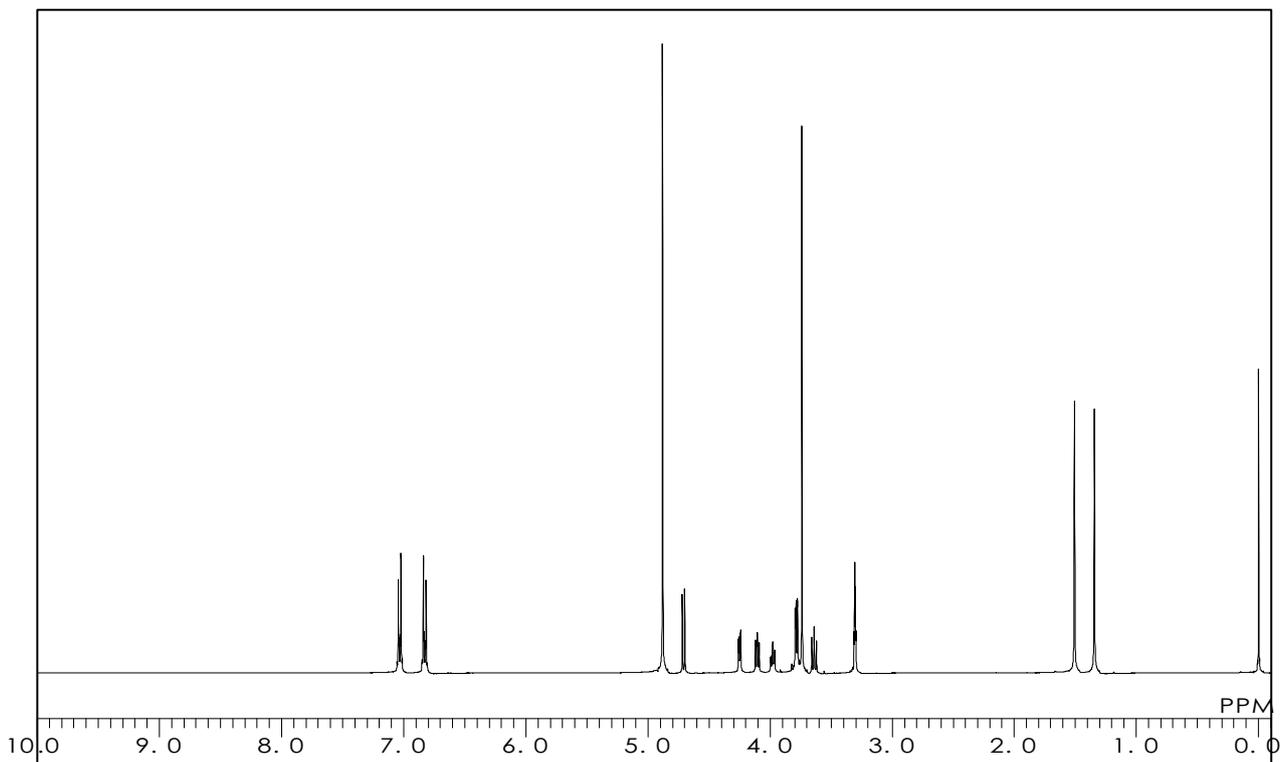
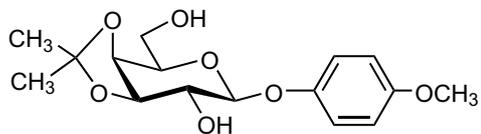
4-Methoxyphenyl 3,4-O-Isopropylidene-β-D-galactopyranoside

$C_{16}H_{22}O_7 = 326.35$ [159922-67-5]

Solvent : CD_3OD

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.0 °C



M1594

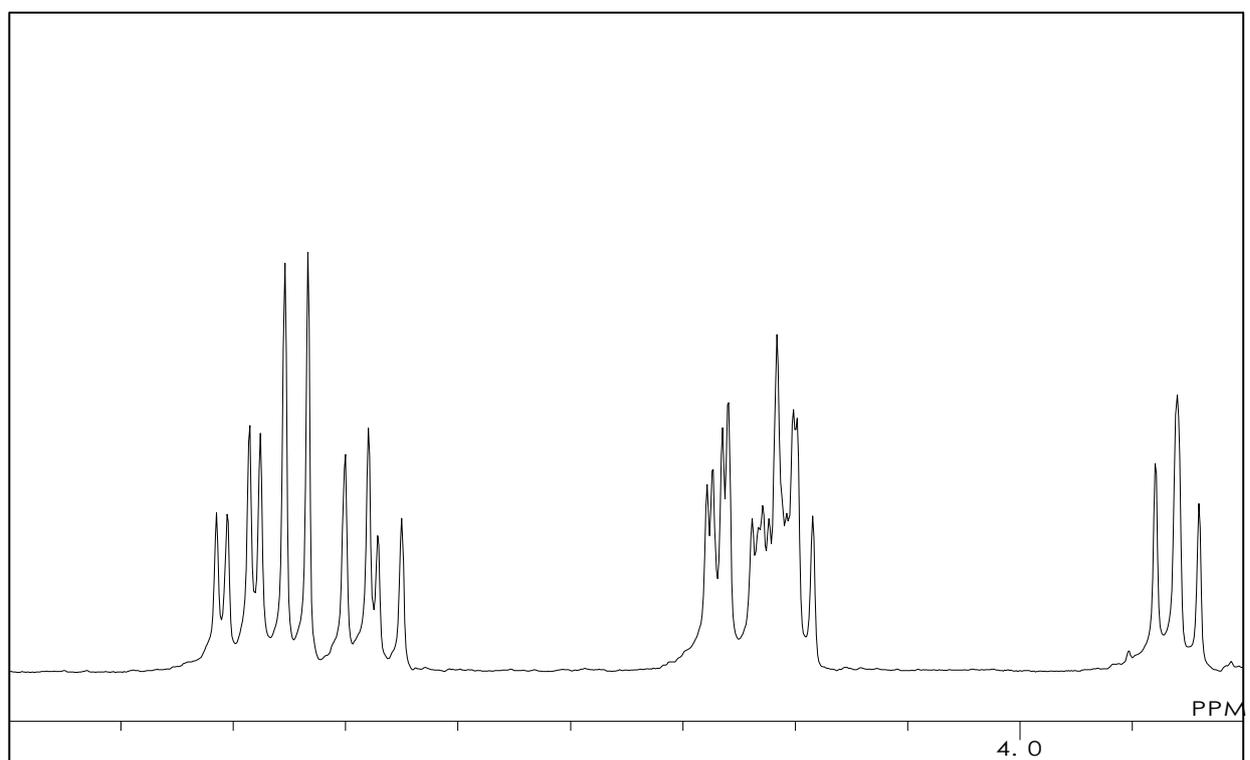
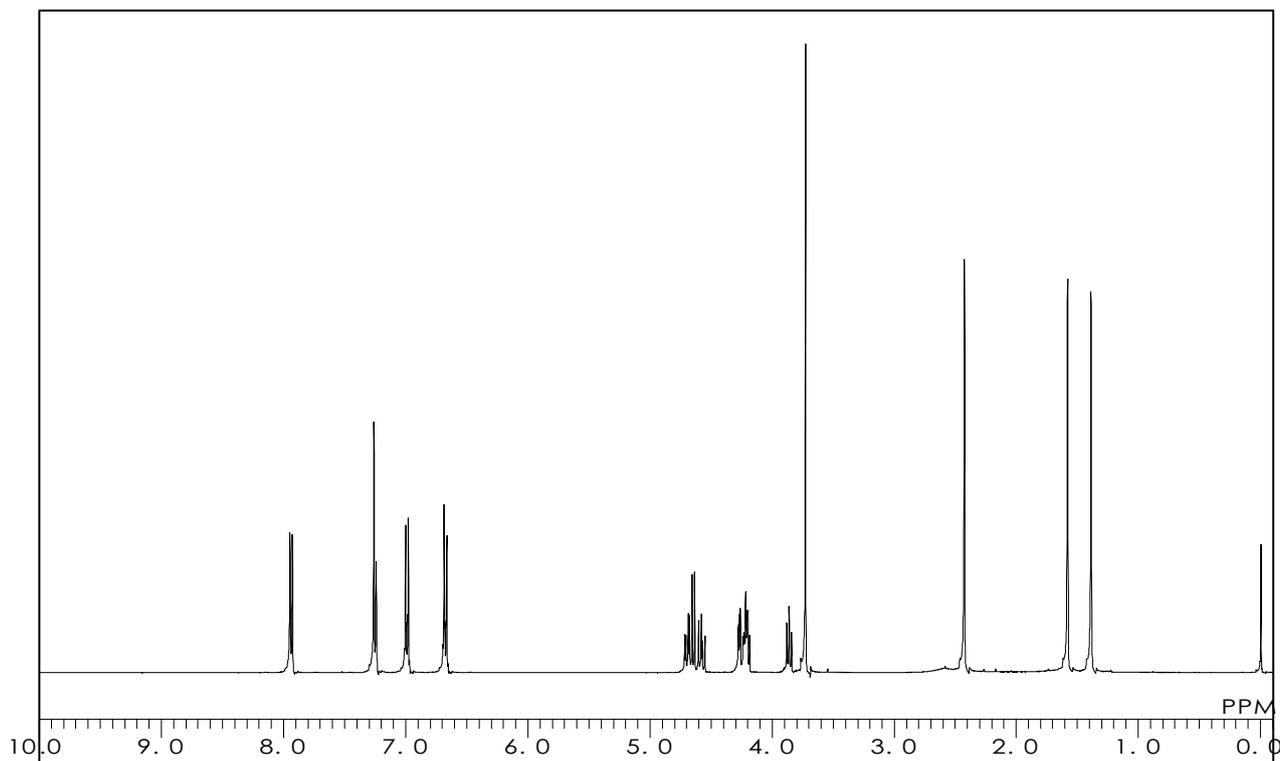
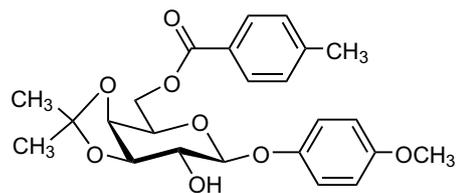
4-Methoxyphenyl 3,4-O-Isopropylidene-6-O-(4-methylbenzoyl)- β -D-galactopyranoside

$C_{24}H_{28}O_8 = 444.48$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.5 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1477

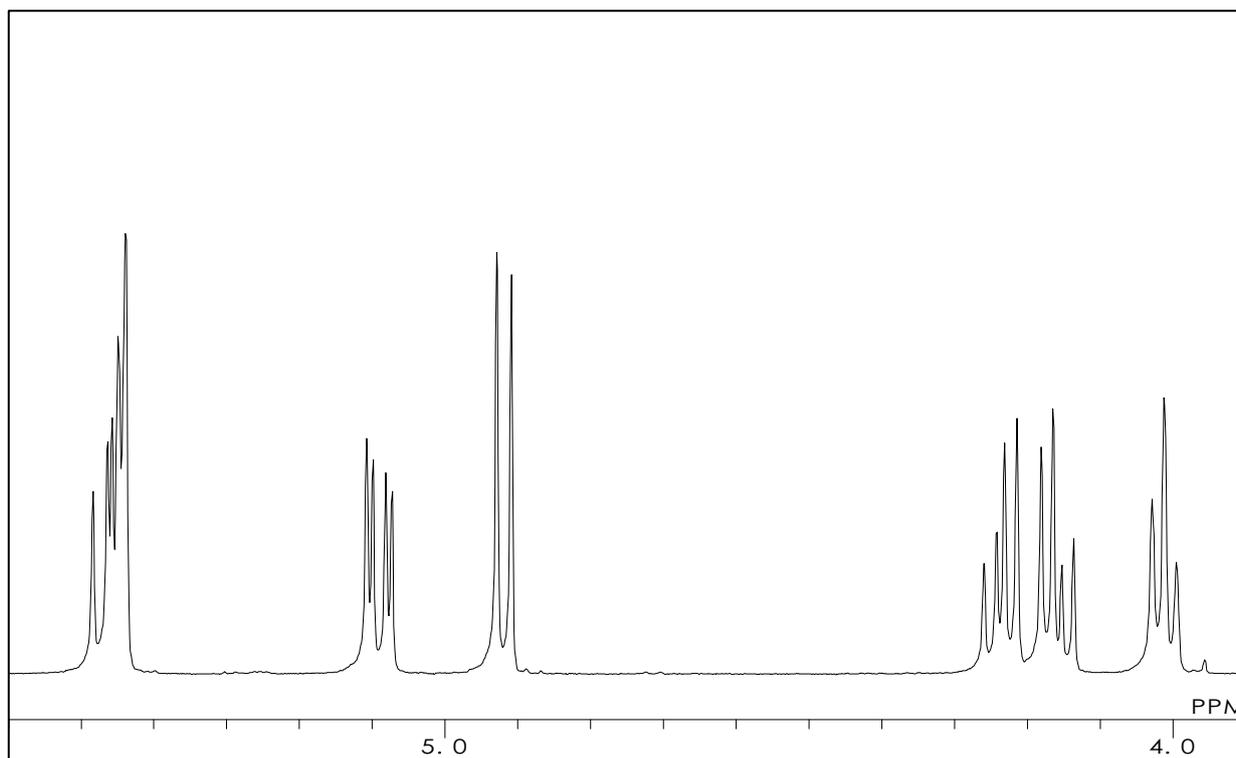
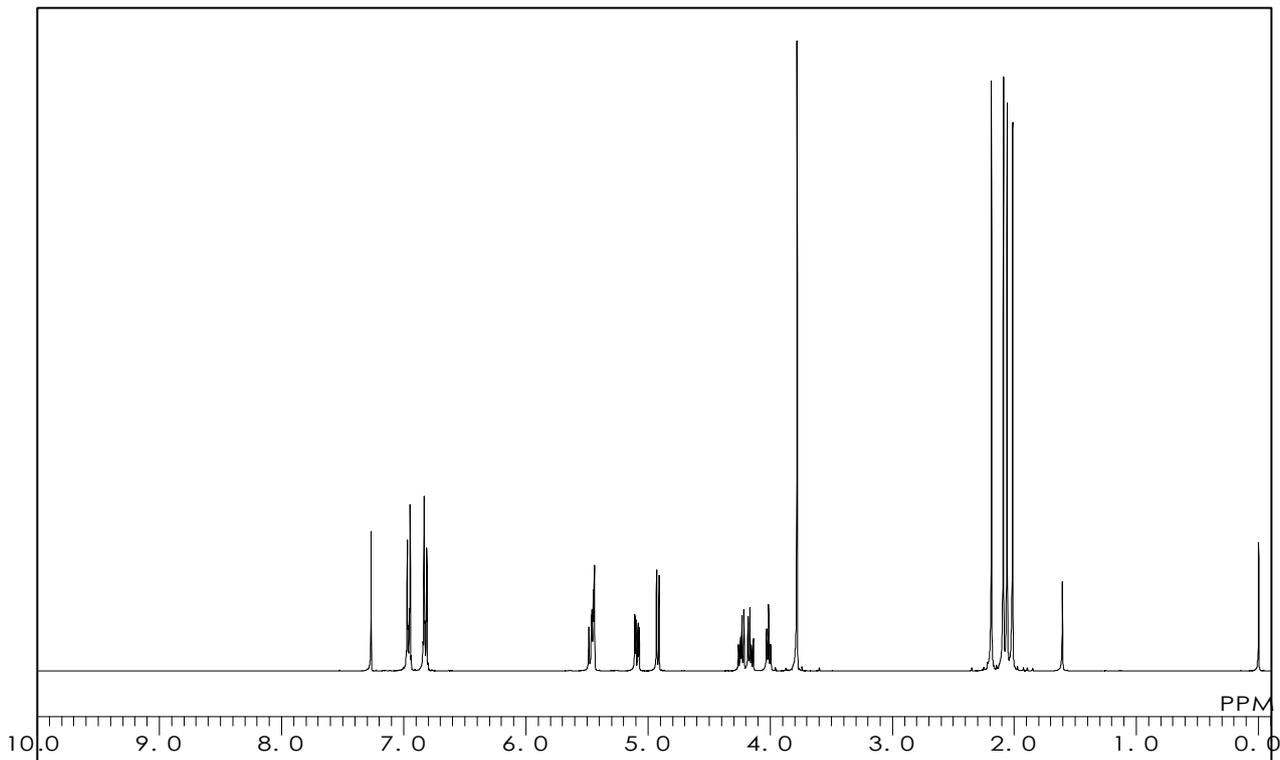
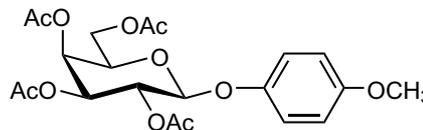
4-Methoxyphenyl 2,3,4,6-Tetra-O-acetyl-β-D-galactopyranoside

$C_{21}H_{26}O_{11}$ = 454.43 [2872-65-3]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.4 °C



M1588

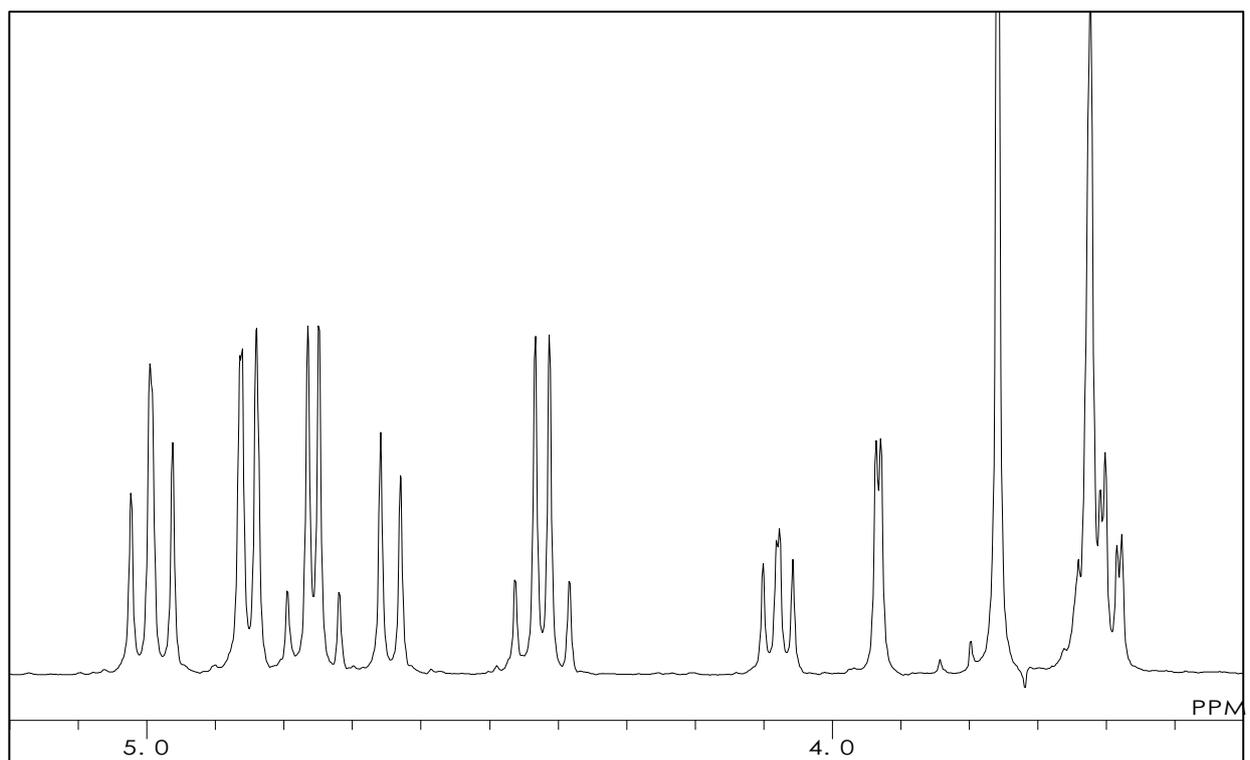
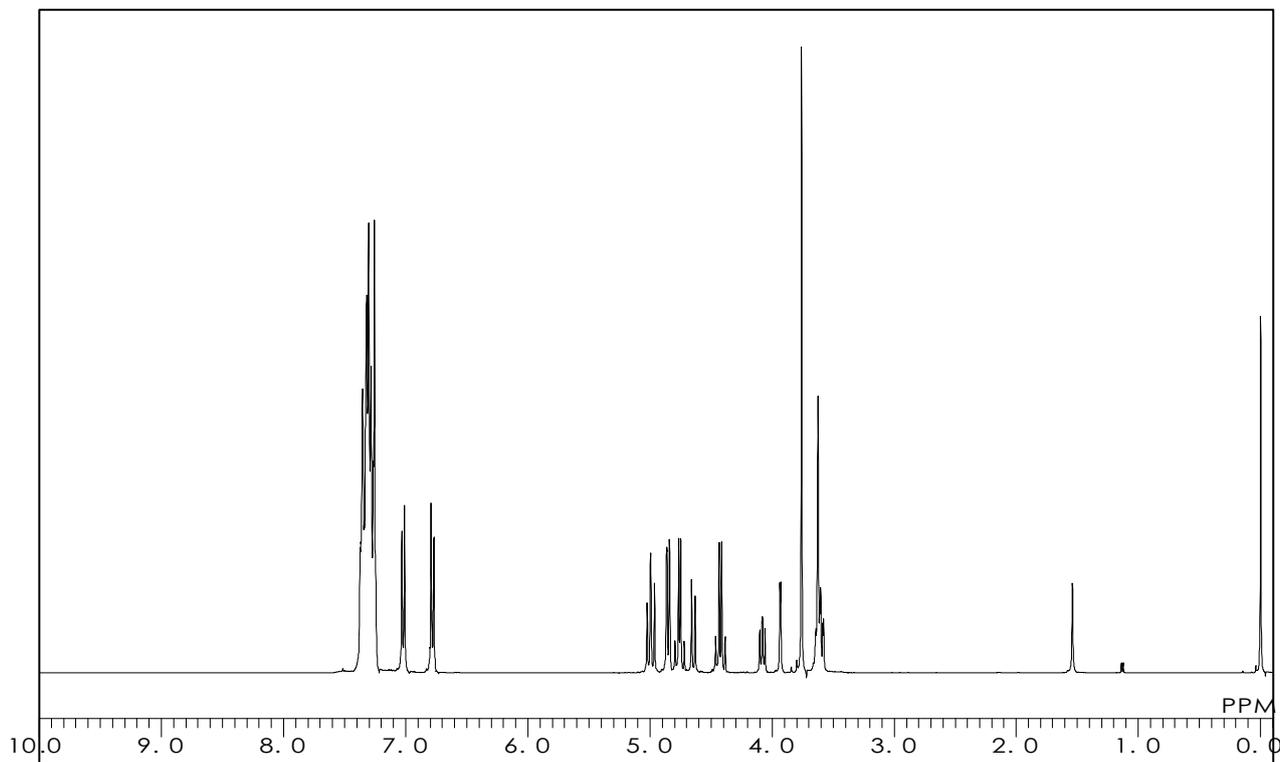
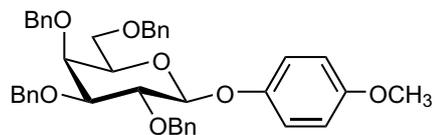
4-Methoxyphenyl 2,3,4,6-Tetra-O-benzyl-β-D-galactopyranoside

C₄₁H₄₂O₇ = 646.78 [143536-99-6]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 21.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1592

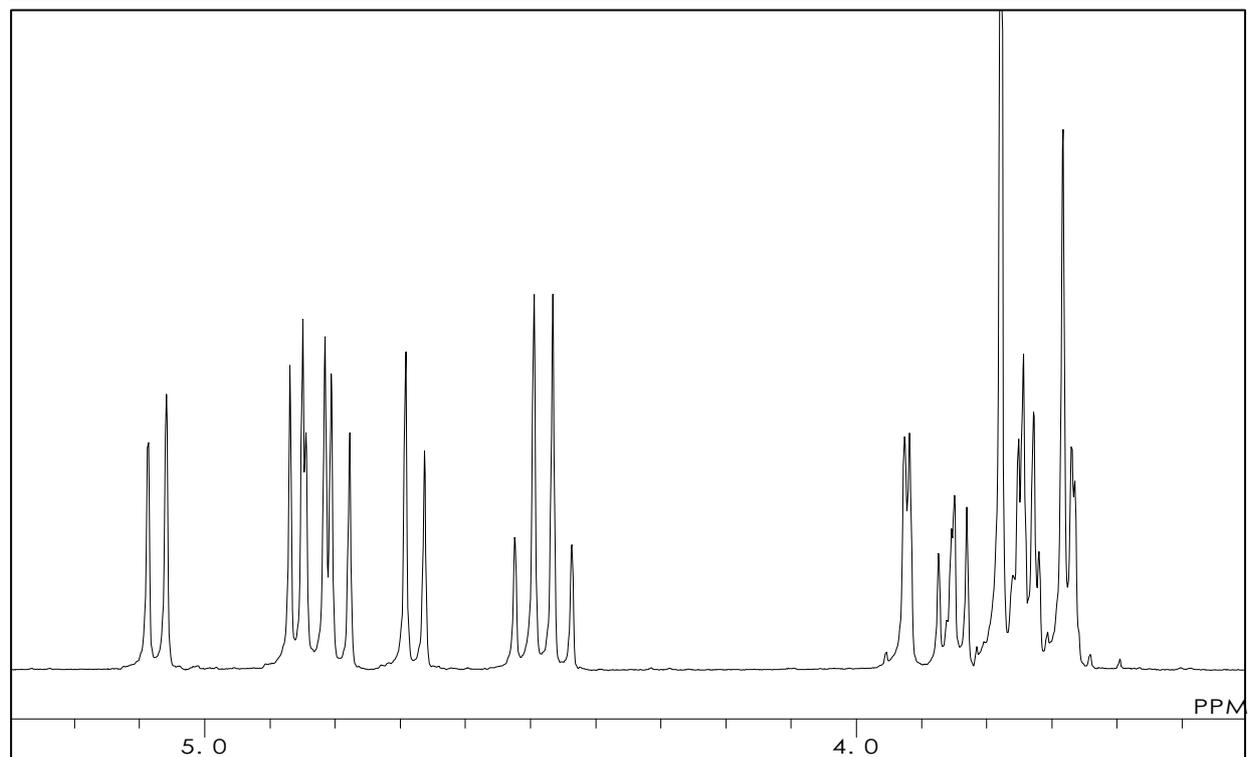
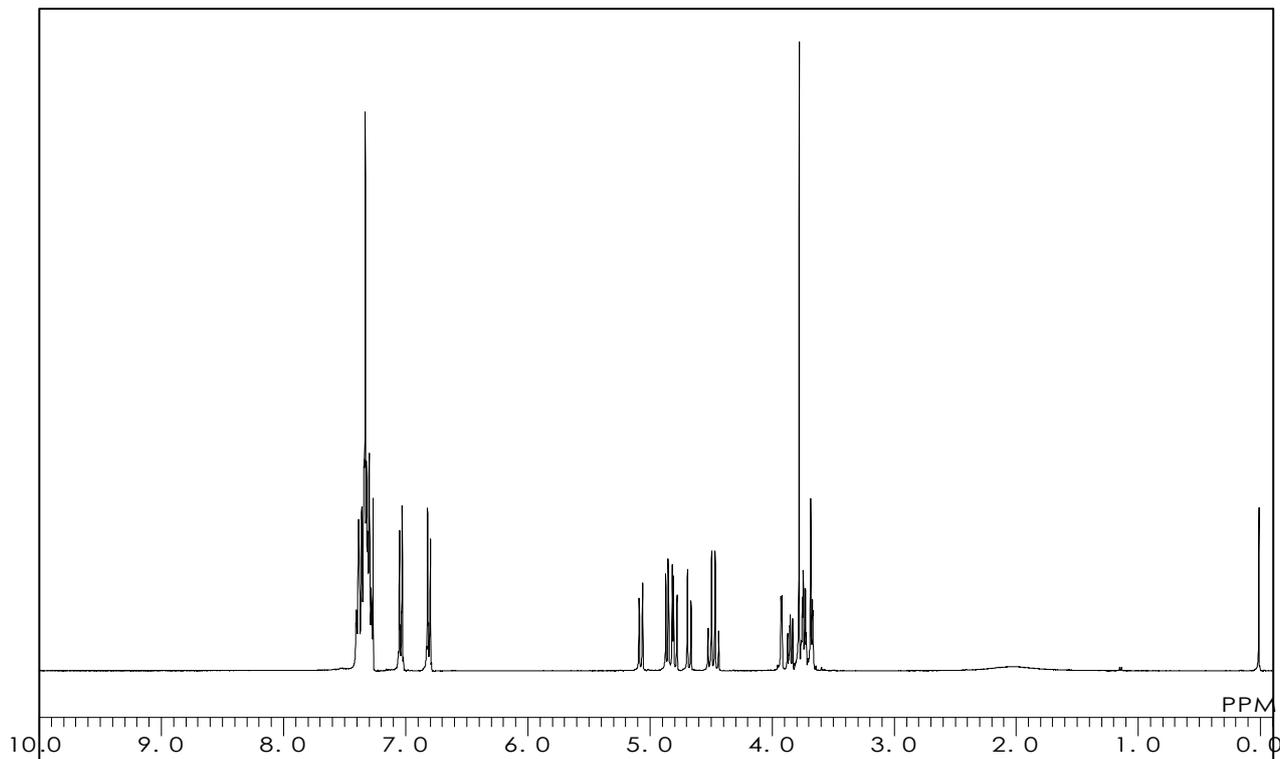
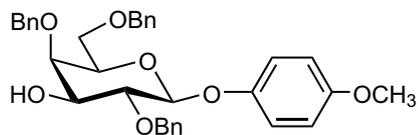
4-Methoxyphenyl 2,4,6-Tri-O-benzyl-β-D-galactopyranoside

C₃₄H₃₆O₇ = 556.66 [247027-79-8]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.0 °C



M1933

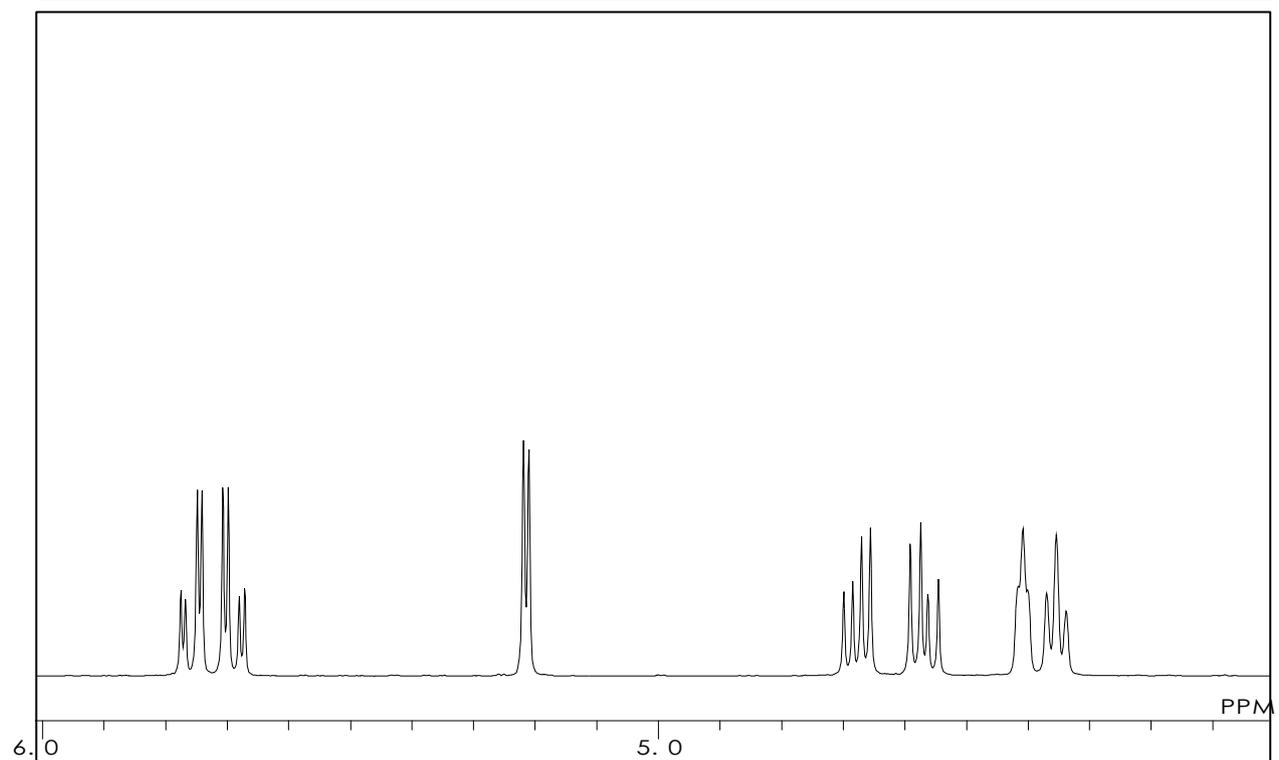
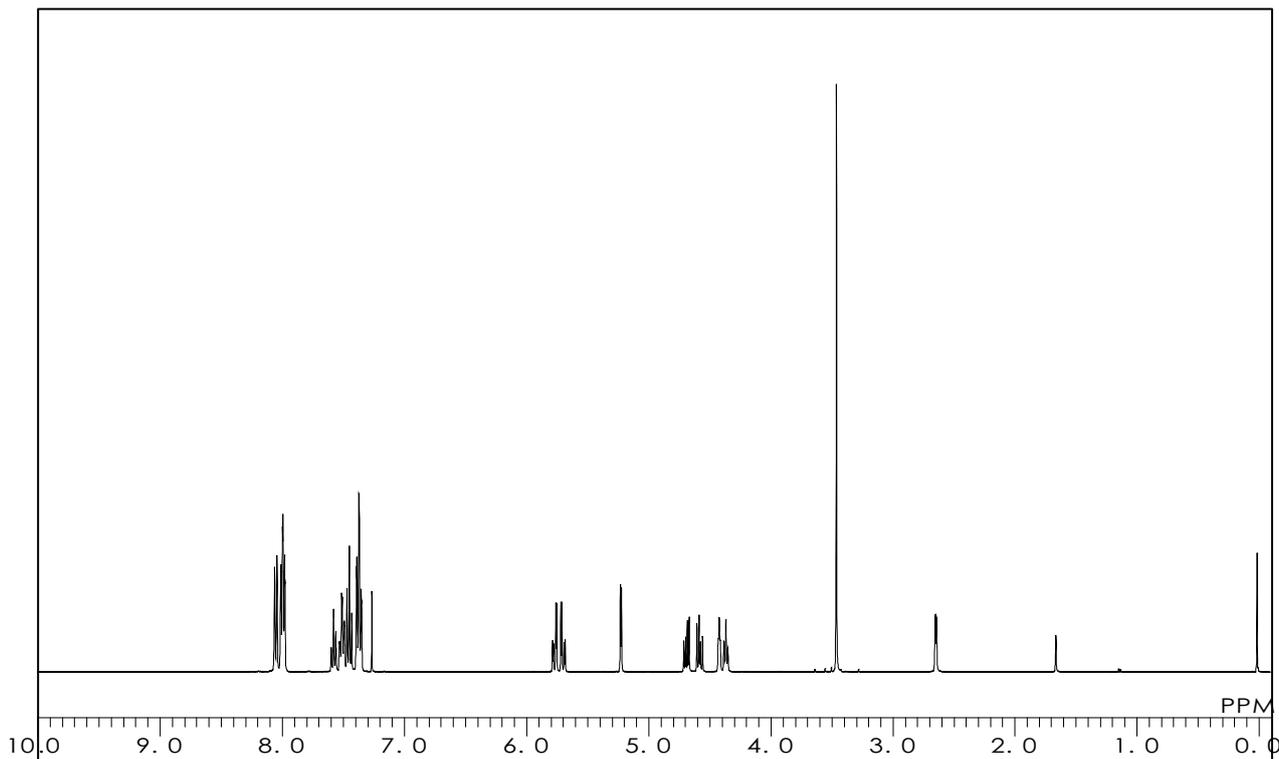
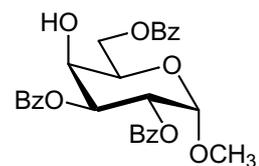
Methyl 2,3,6-Tri-O-benzoyl- α -D-galactopyranoside

$C_{28}H_{26}O_9 = 506.51$ [3601-36-3]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 25.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

P2078

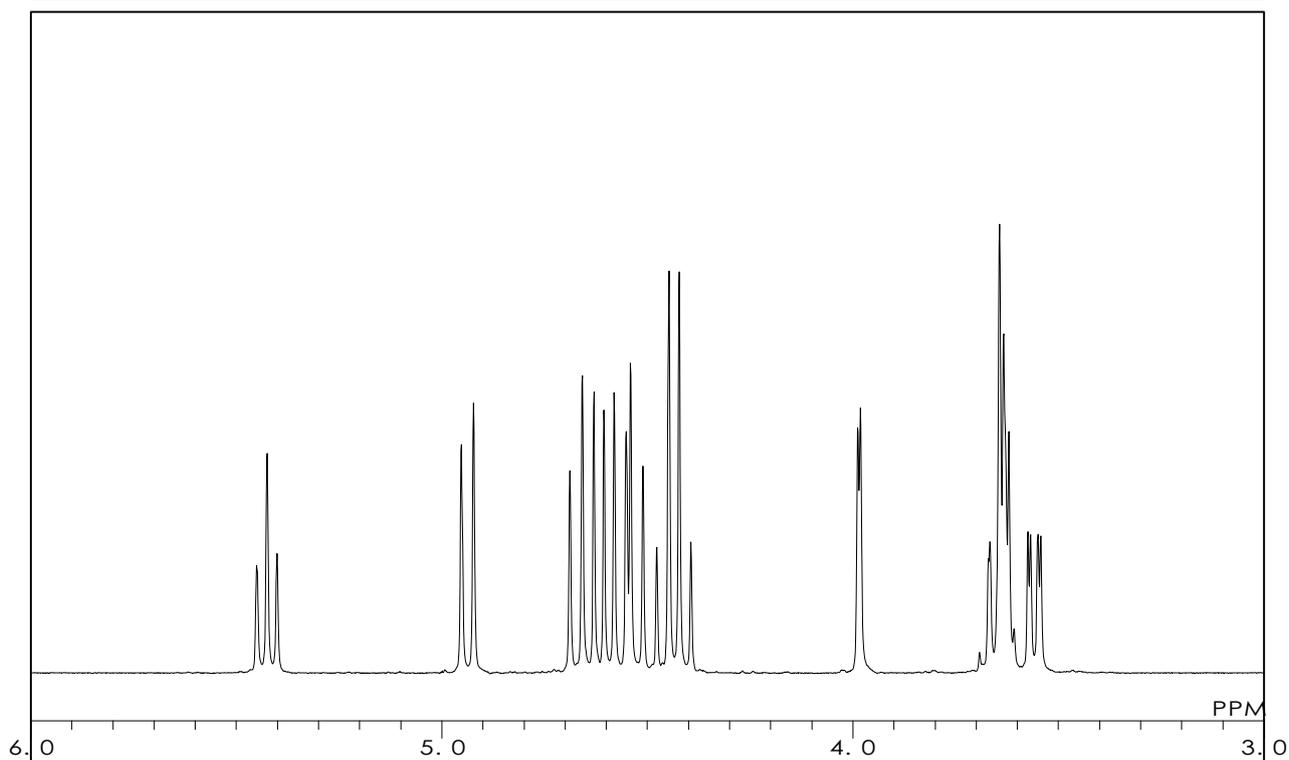
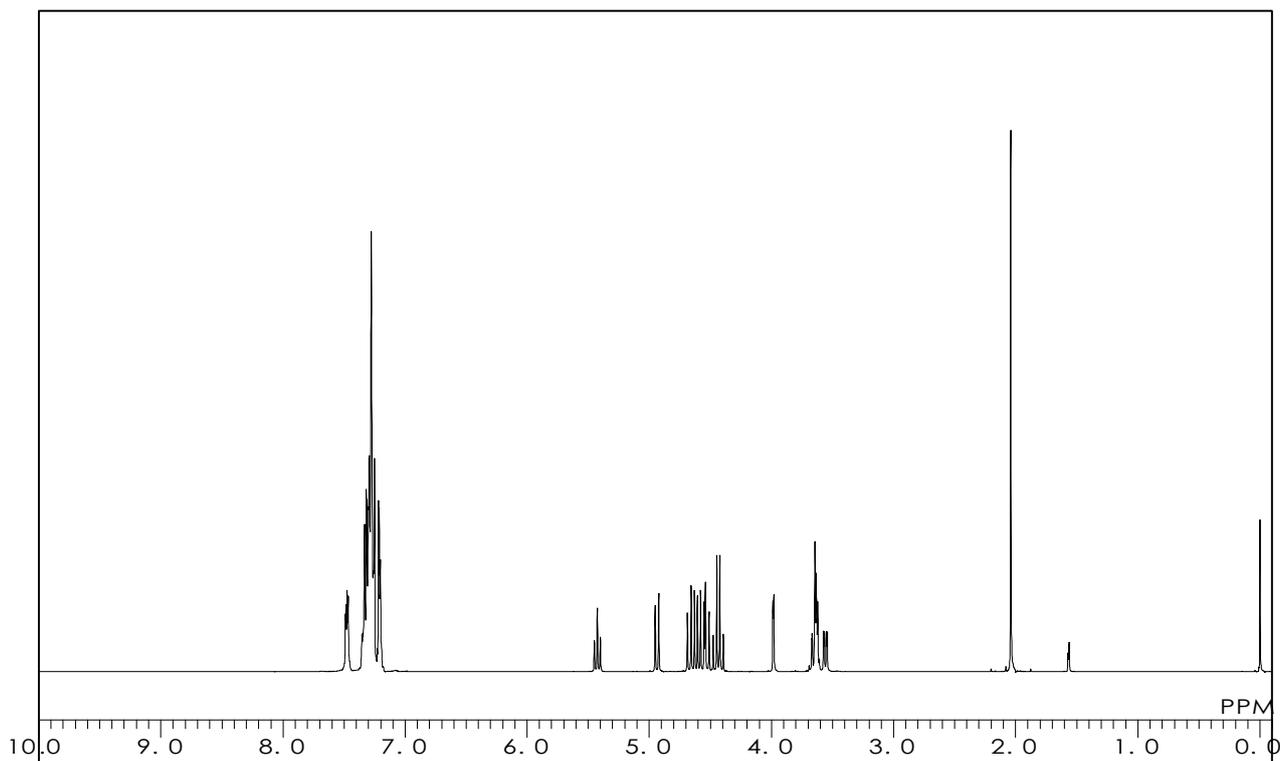
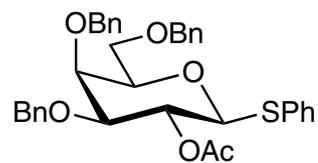
**Phenyl 2-O-Acetyl-3,4,6-tri-O-benzyl-
1-thio-β-D-galactopyranoside**

C₃₅H₃₆O₆S = 584.73 [183875-28-7]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 21.3 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

P1477

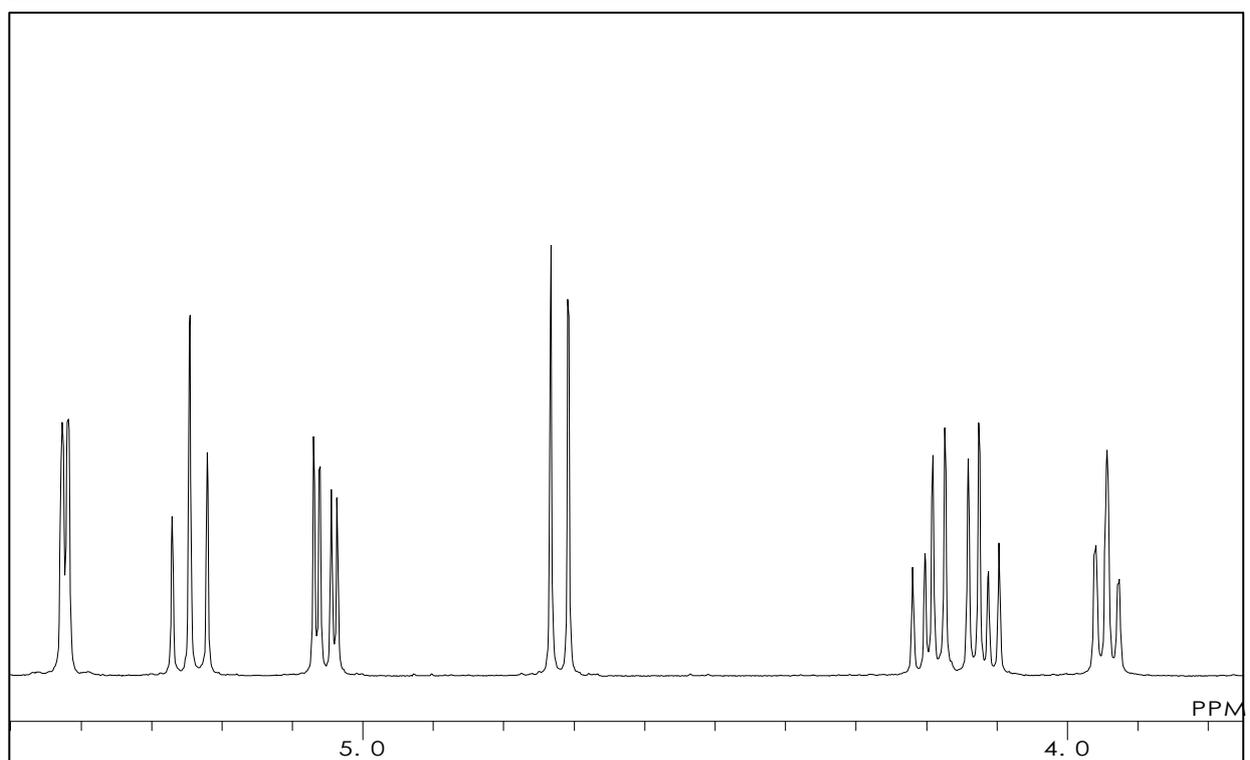
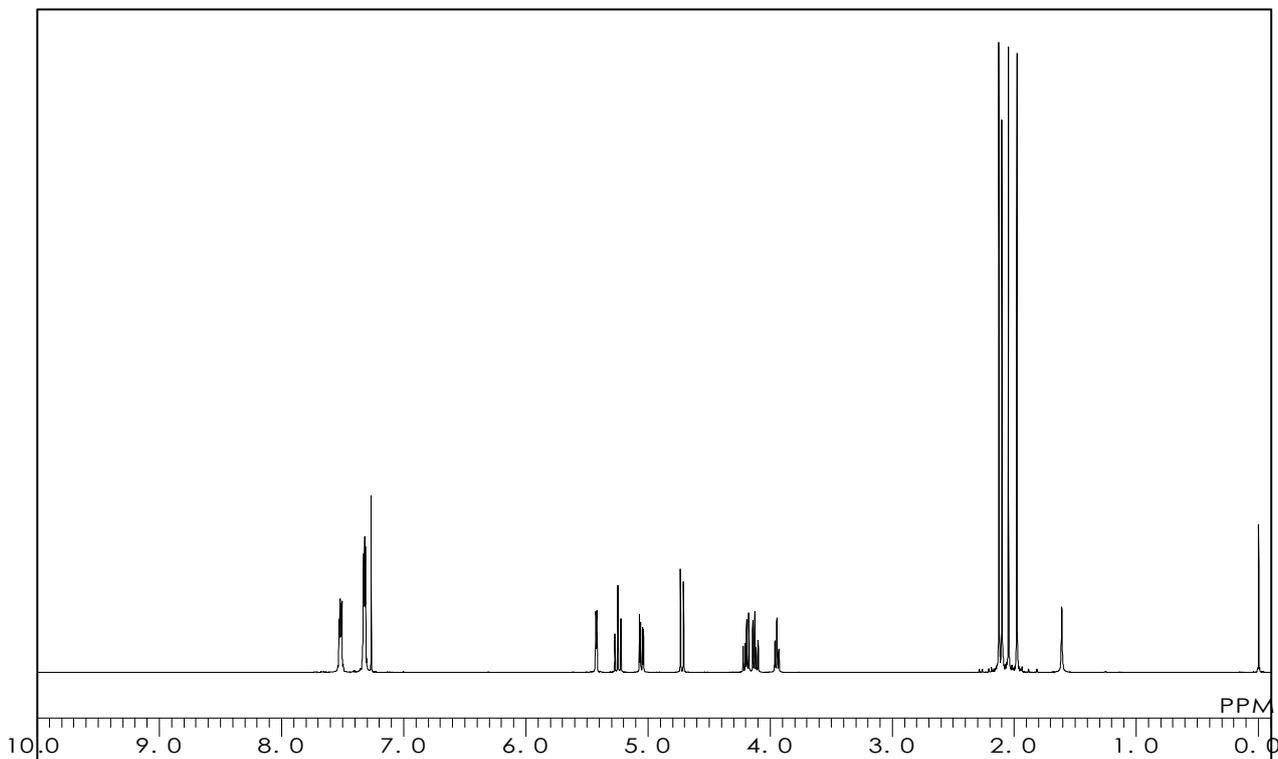
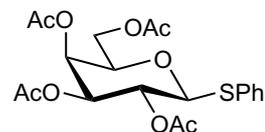
Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio-β-D-galactopyranoside

C₂₀H₂₄O₉S = 440.46 [24404-53-3]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 21.4 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

P1679

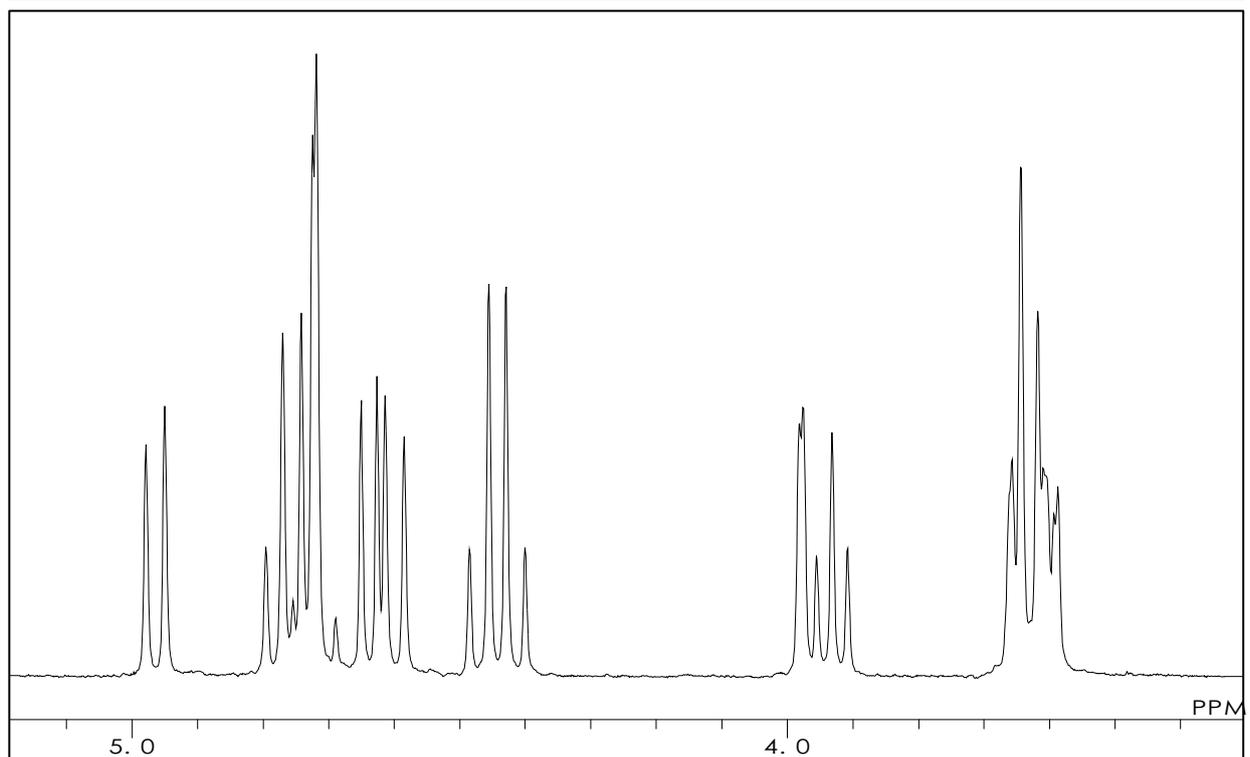
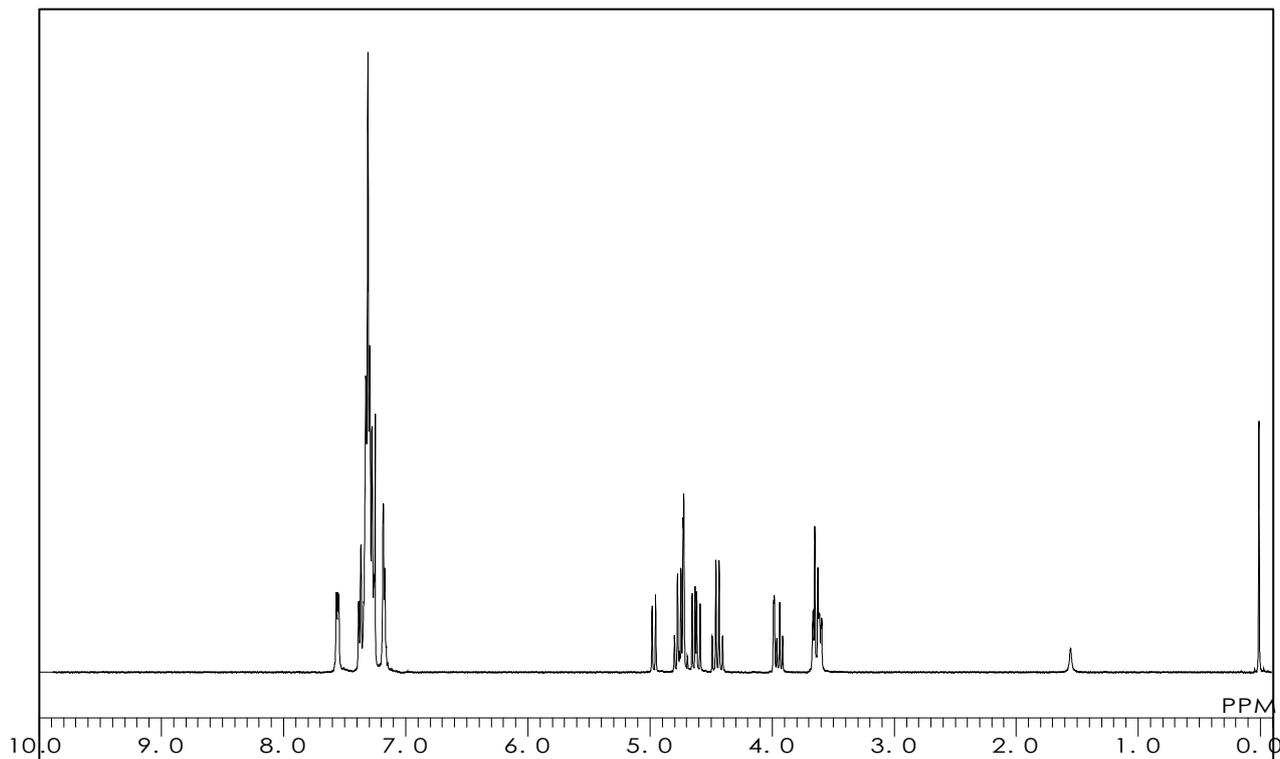
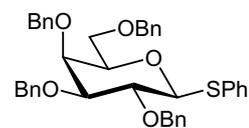
Phenyl 2,3,4,6-Tetra-O-benzyl-1-thio-β-D-galactopyranoside

C₄₀H₄₀O₅S = 632.82 [74801-29-9]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.0 °C



P1680

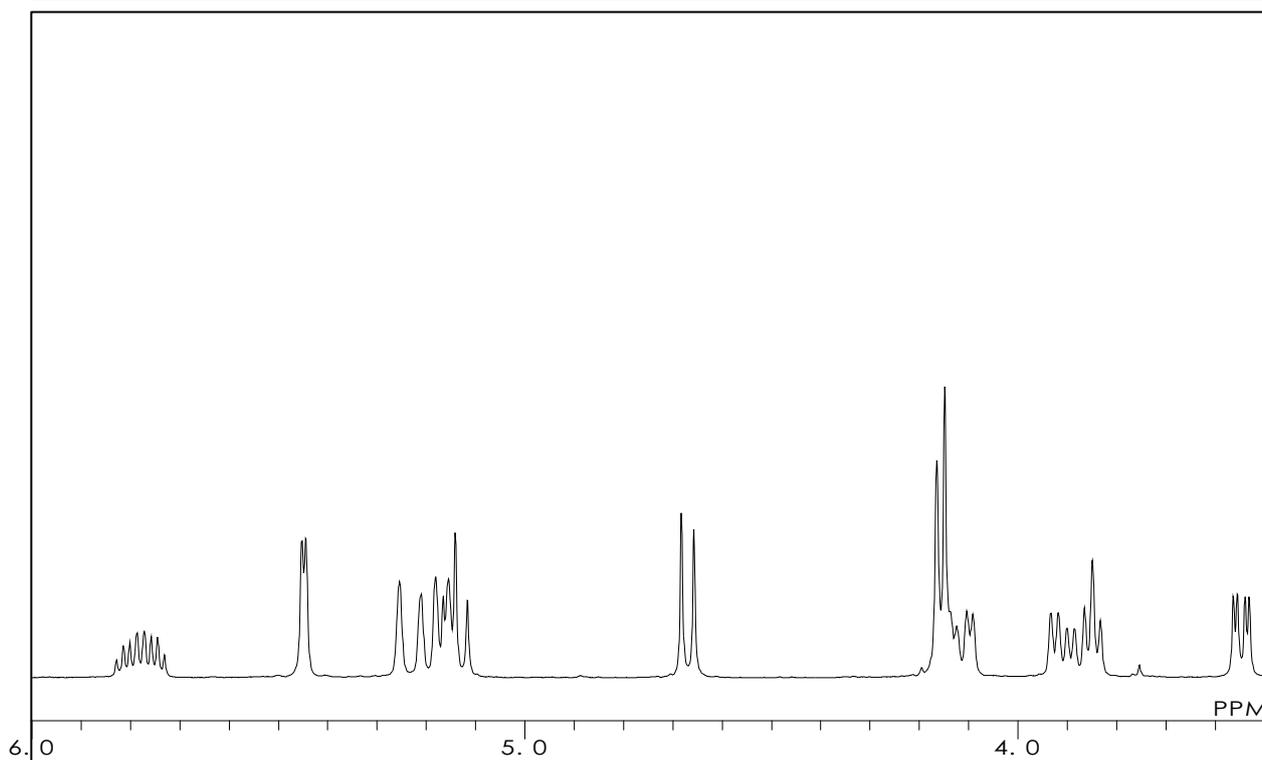
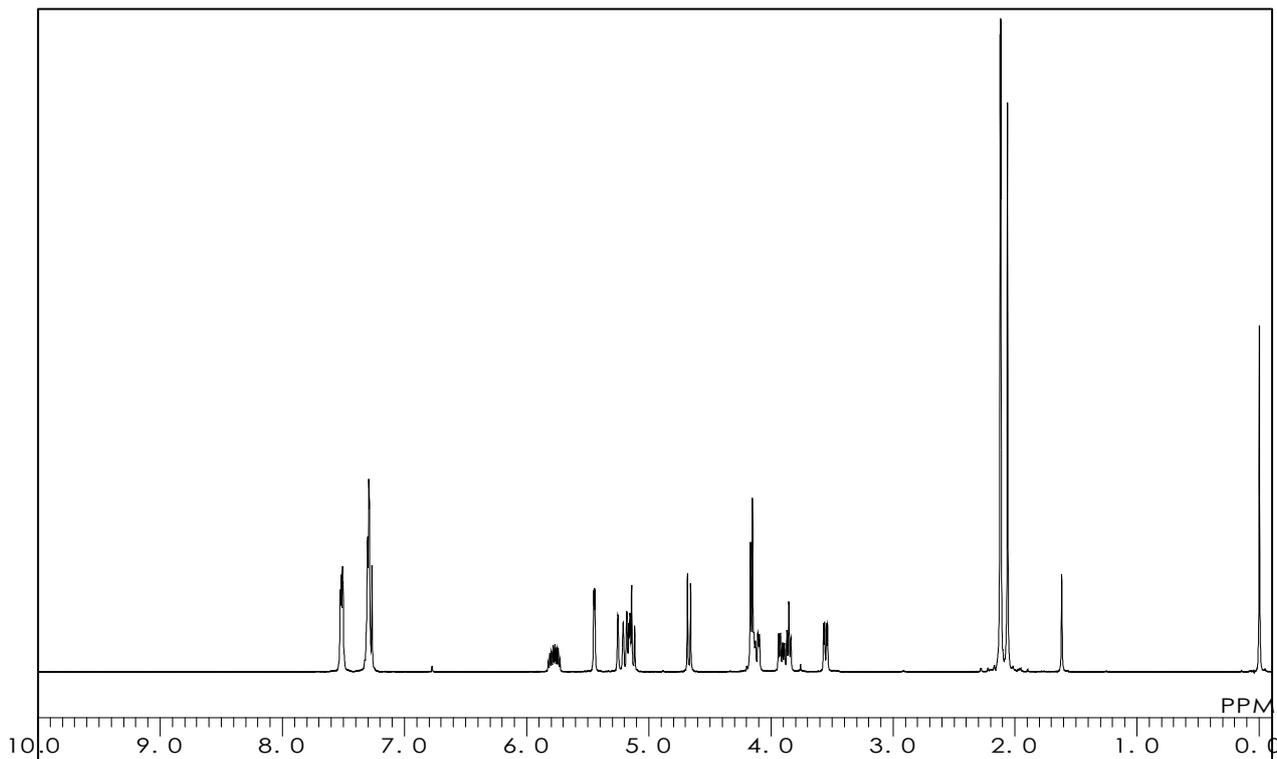
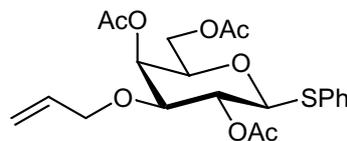
Phenyl 2,4,6-Tri-O-acetyl-3-O-allyl-1-thio-β-D-galactopyranoside

$C_{21}H_{26}O_8S = 438.49$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.6 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T2295

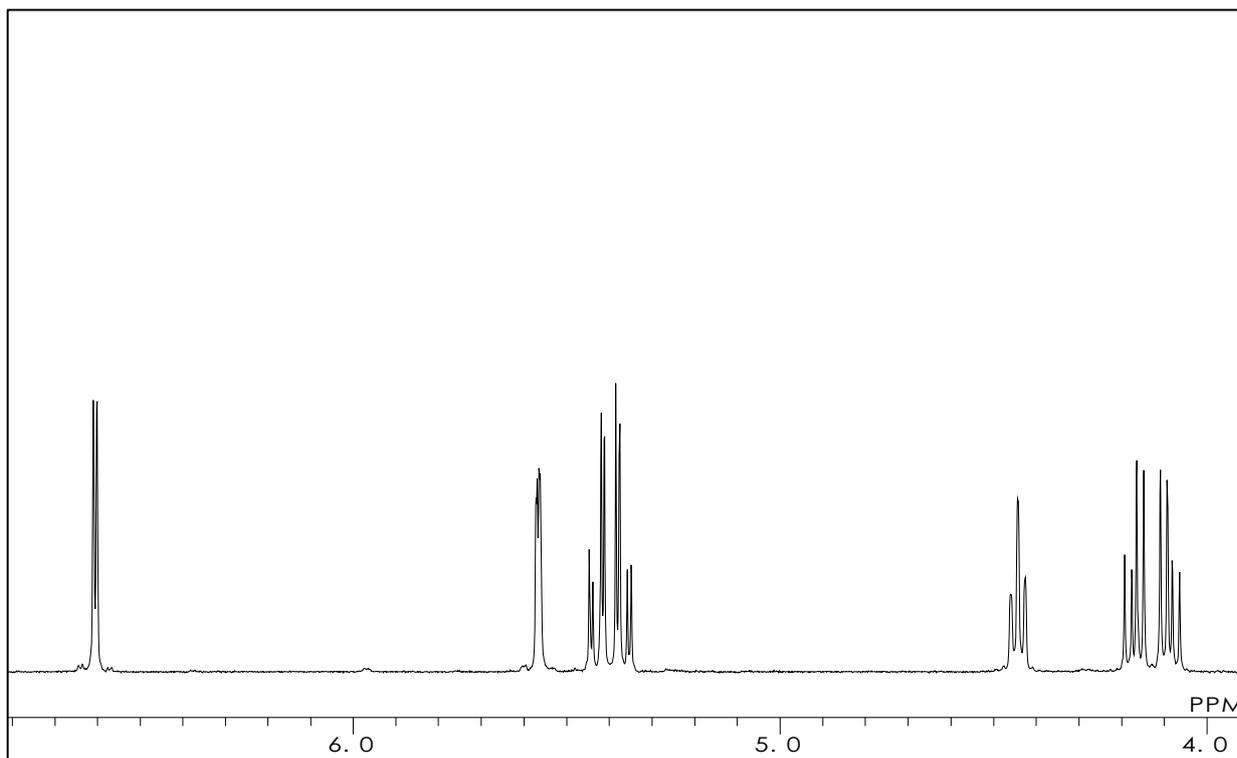
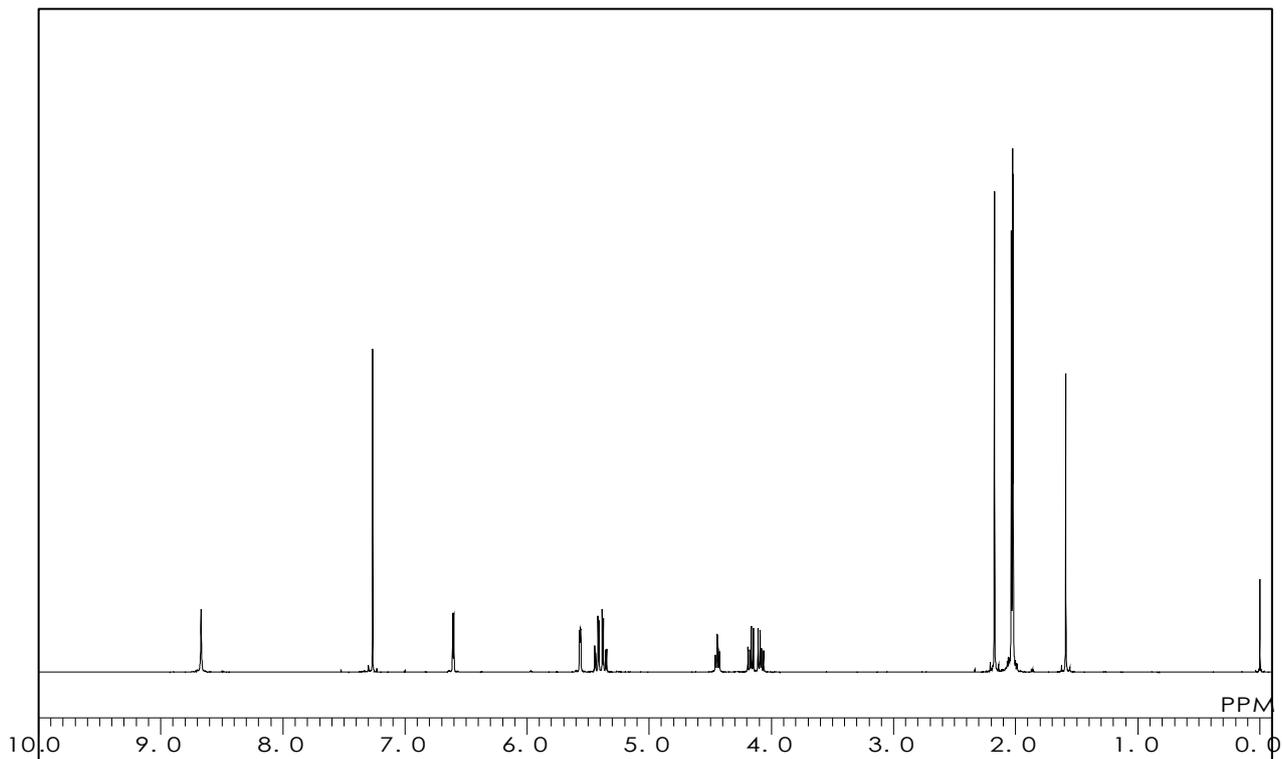
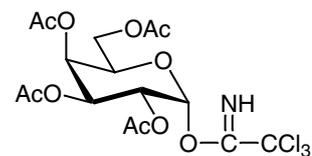
**2,3,4,6-Tetra-O-acetyl- α -D-galactopyranosyl
2,2,2-Trichloroacetimidate**

$C_{16}H_{20}Cl_3NO_{10}$ = 492.68 [86520-63-0]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.4 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

A1833

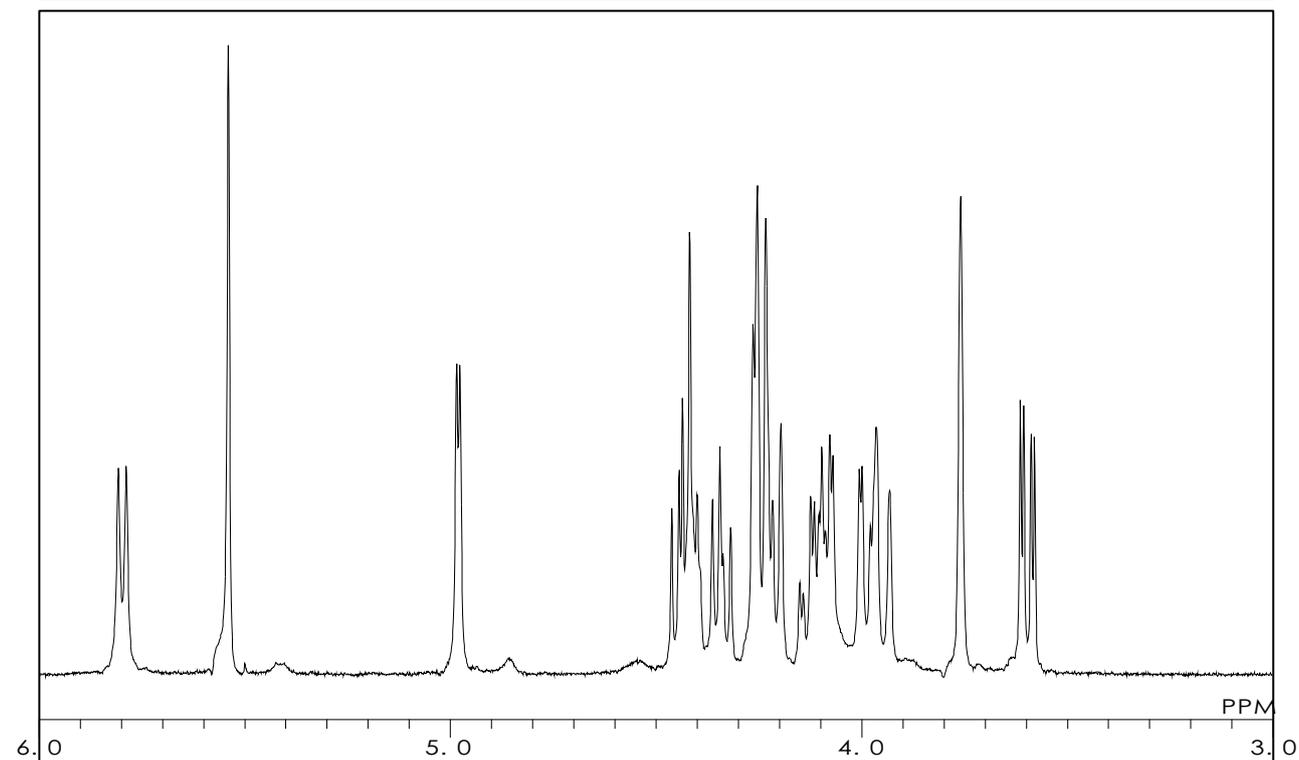
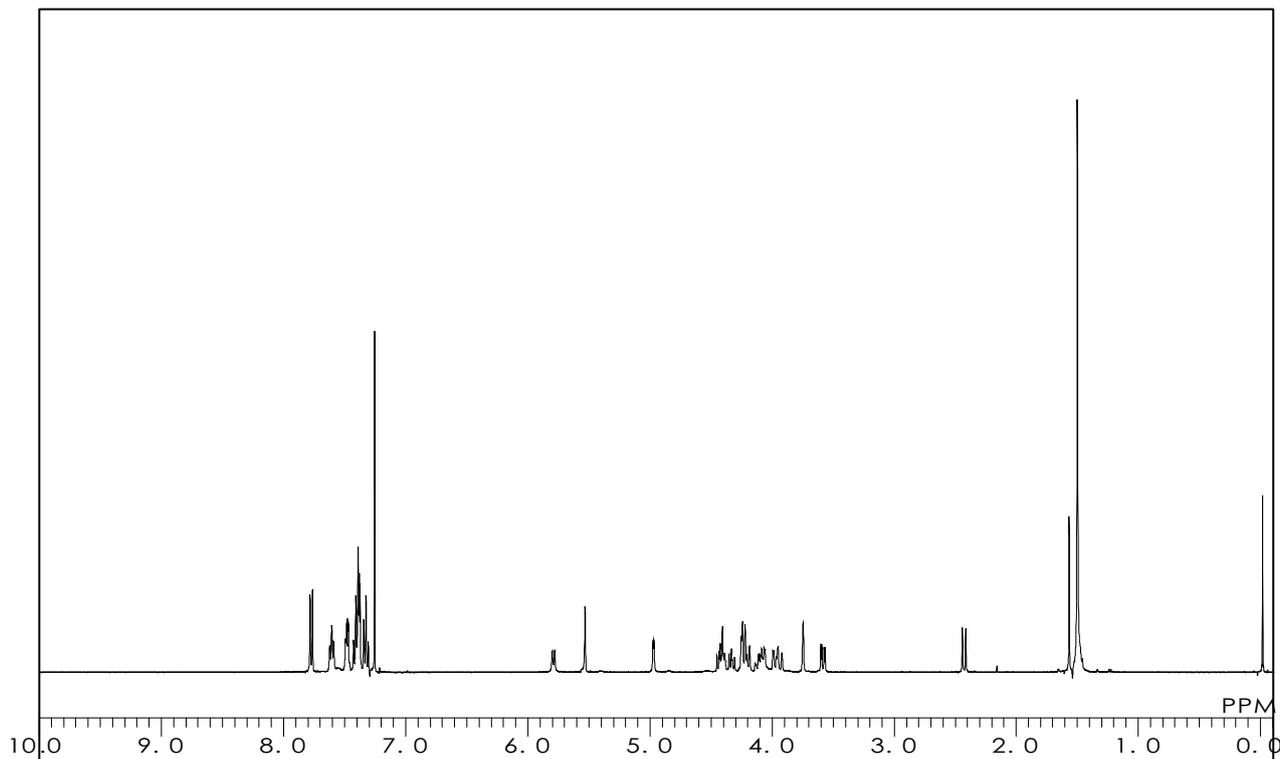
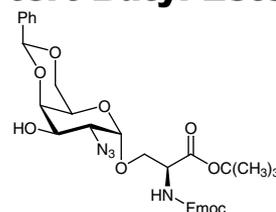
**O-(2-Azido-4,6-O-benzylidene-2-deoxy- α -D-galactopyranosyl)-
N-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-serine *tert*-Butyl Ester**

C₃₅H₃₈N₄O₉ = 658.71 [878483-02-4]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

A1832

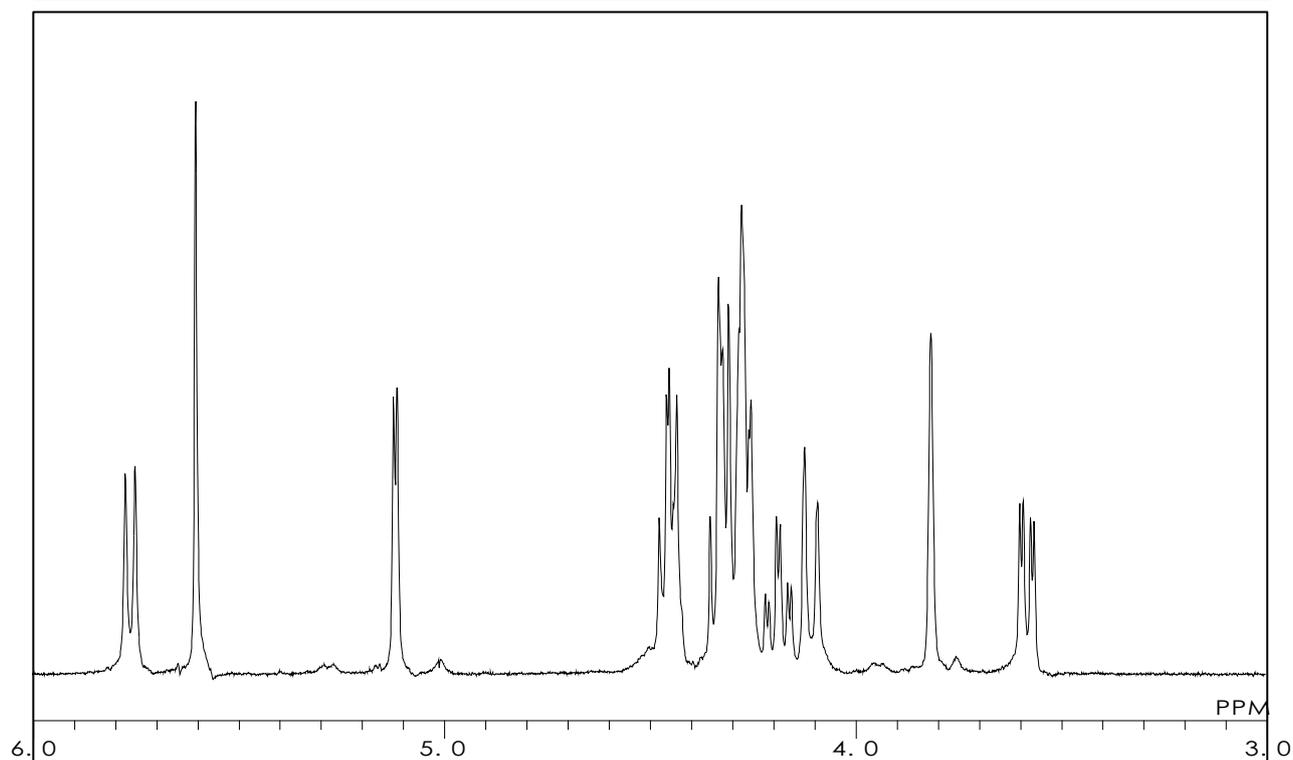
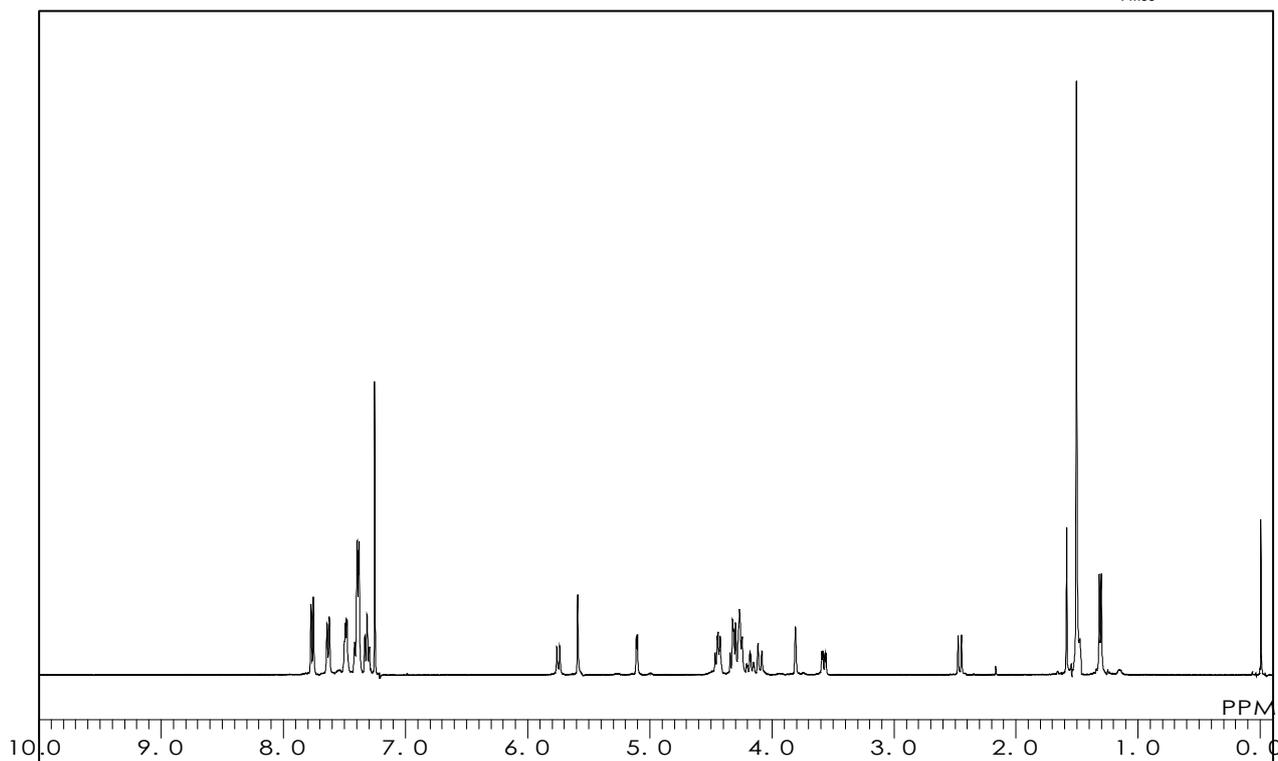
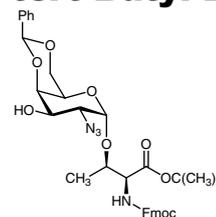
**O-(2-Azido-4,6-O-benzylidene-2-deoxy- α -D-galactopyranosyl)-
N-[(9H-fluoren-9-ylmethoxy)carbonyl]-L-threonine *tert*-Butyl Ester**

C₃₆H₄₀N₄O₉ = 672.74 [195976-07-9]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.0 °C



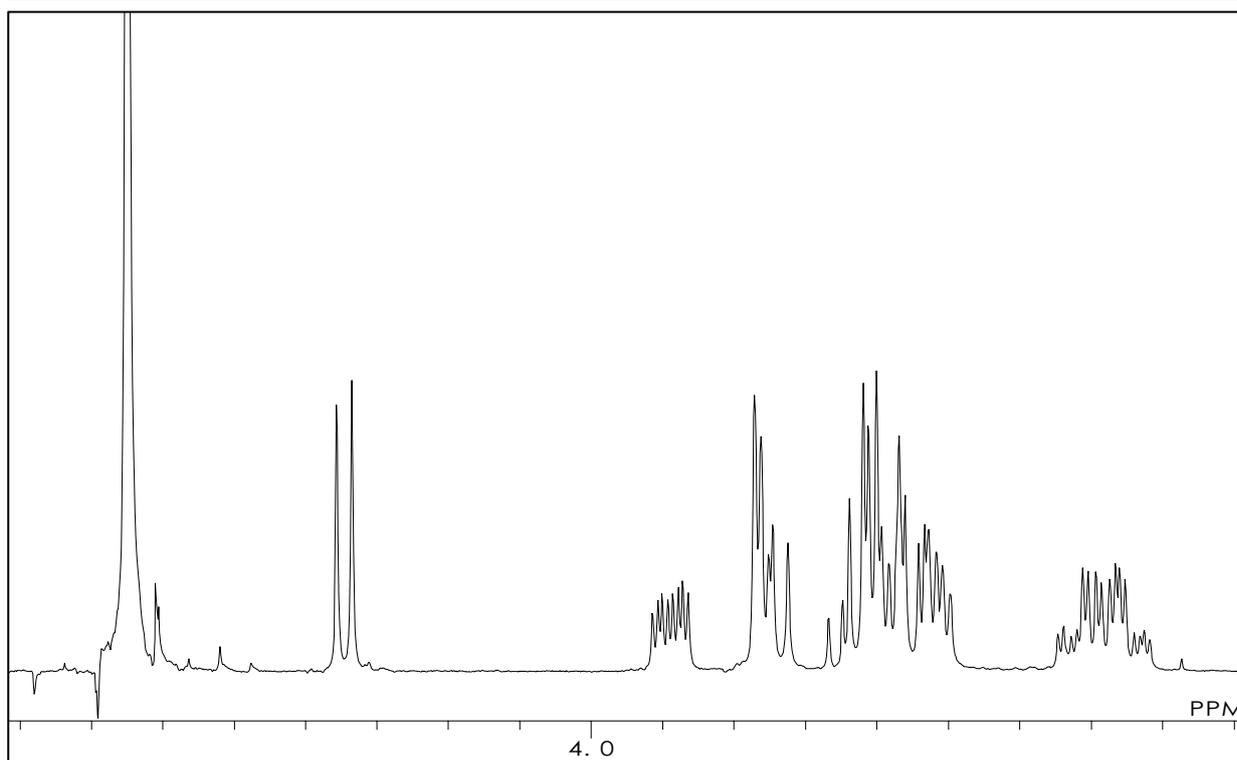
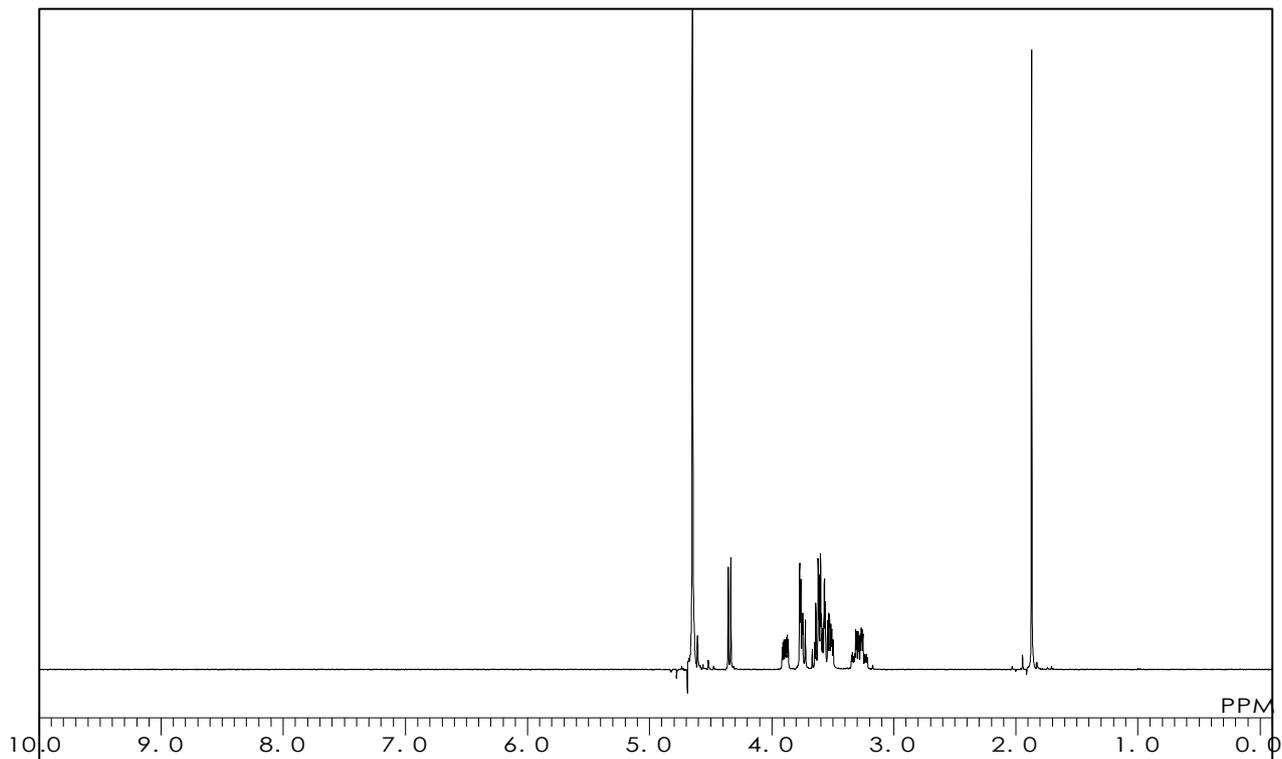
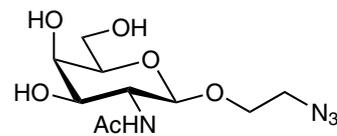
A2627

2-Azidoethyl 2-Acetamido-2-deoxy- β -D-galactopyranoside

$C_{10}H_{18}N_4O_6 = 290.28$ [142072-15-9]

Solvent : D_2O

Measured Temperature : 20.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1643

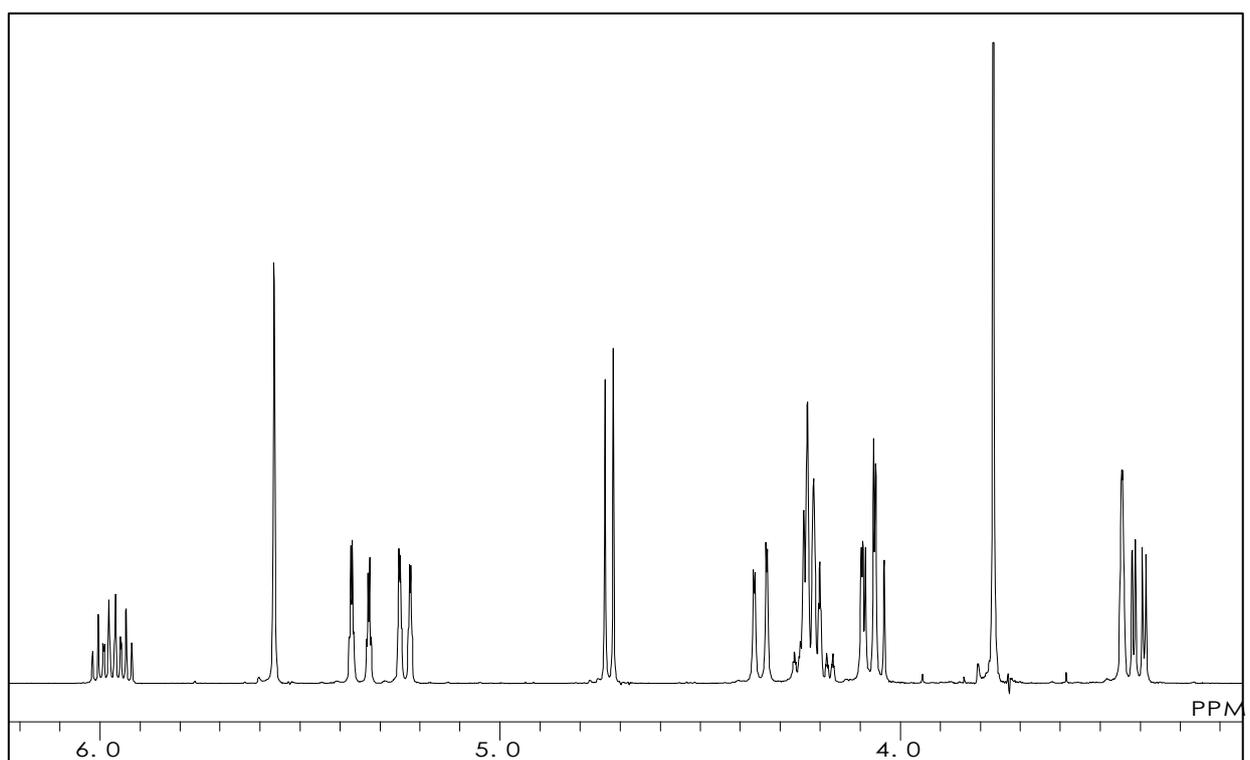
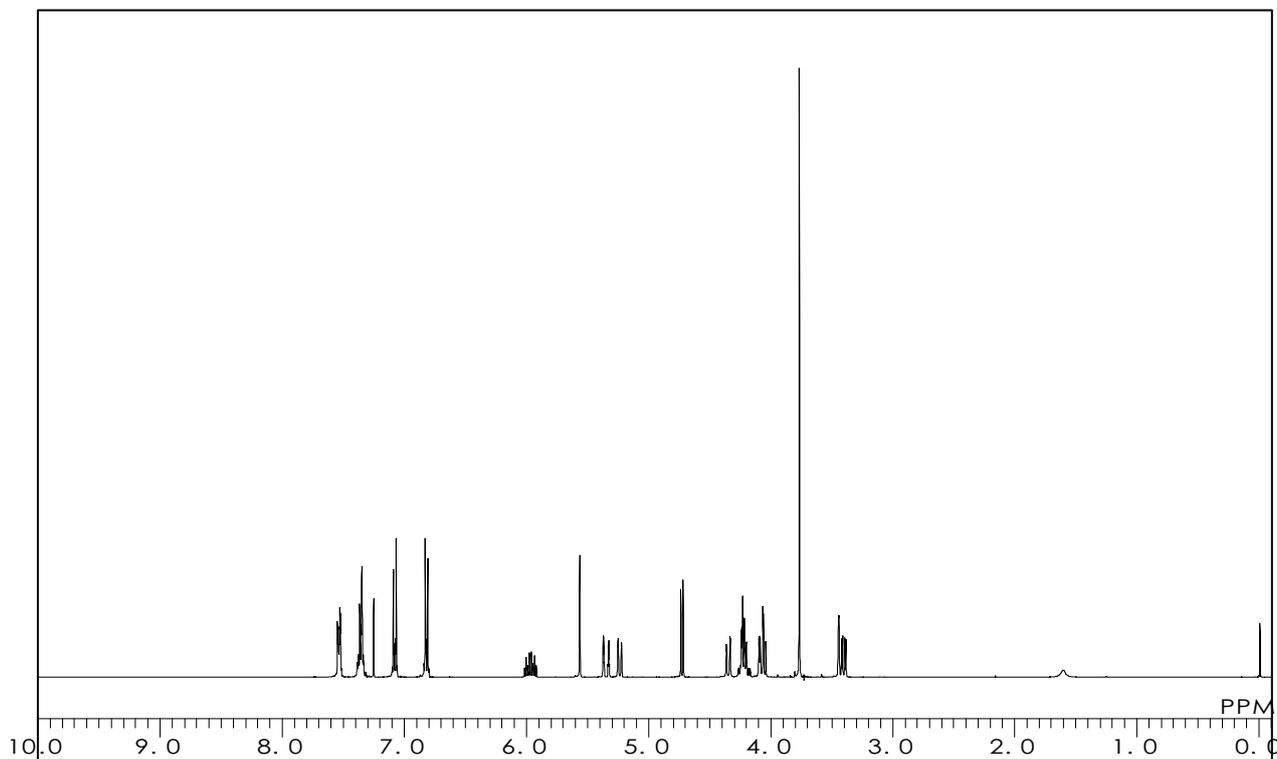
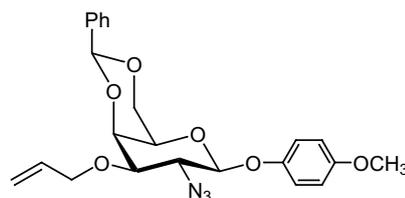
4-Methoxyphenyl 3-O-Allyl-2-azido-4,6-O-benzylidene-2-deoxy- β -D-galactopyranoside

$C_{23}H_{25}N_3O_6 = 439.47$ [889453-83-2]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.4 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

M2737

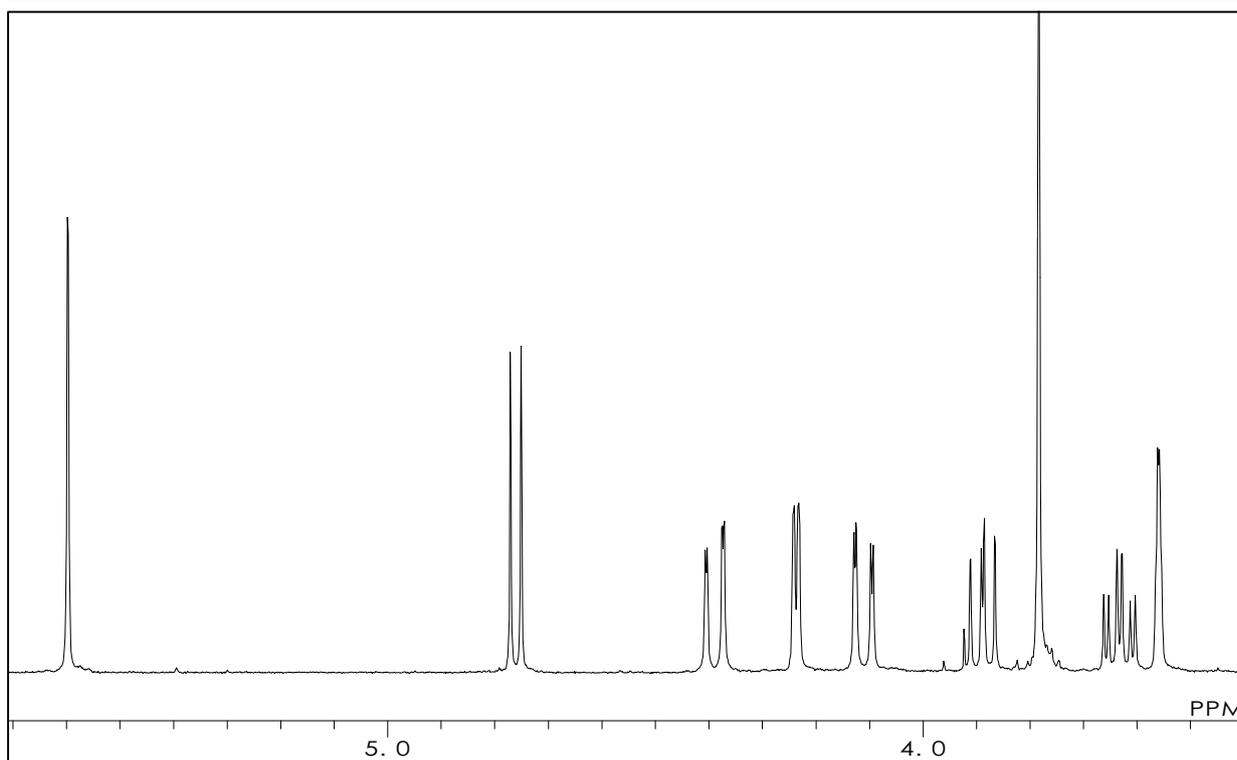
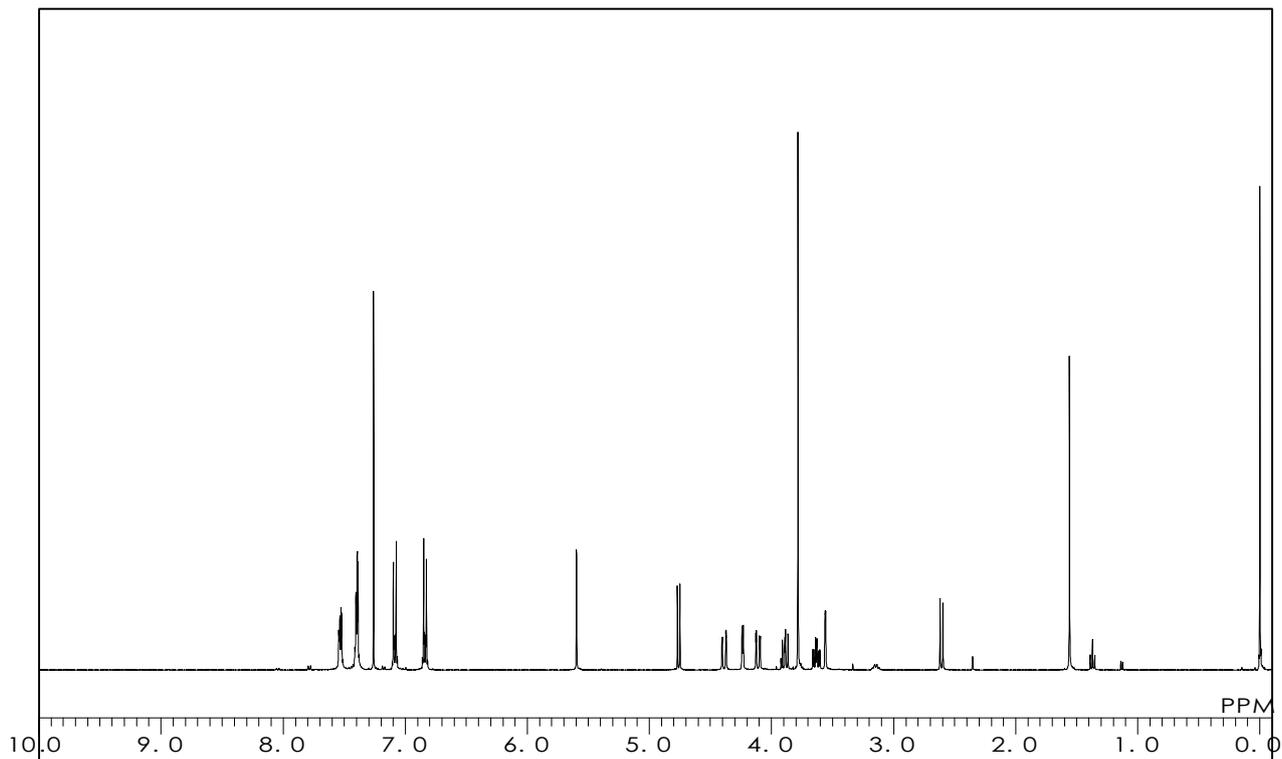
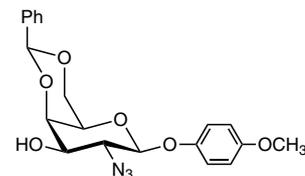
4-Methoxyphenyl 2-Azido-4,6-O-benzylidene-2-deoxy- β -D-galactopyranoside

$C_{20}H_{21}N_3O_6 = 399.40$ [1340541-47-0]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 34.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

P1643

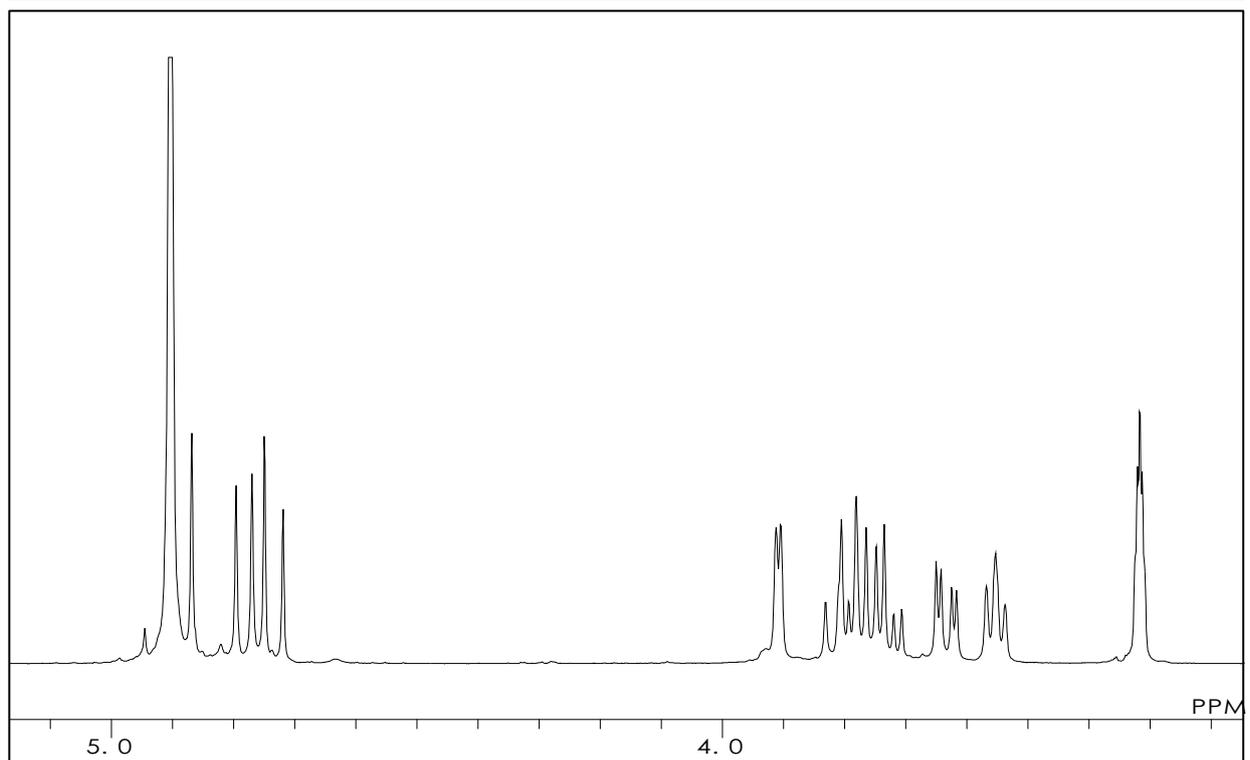
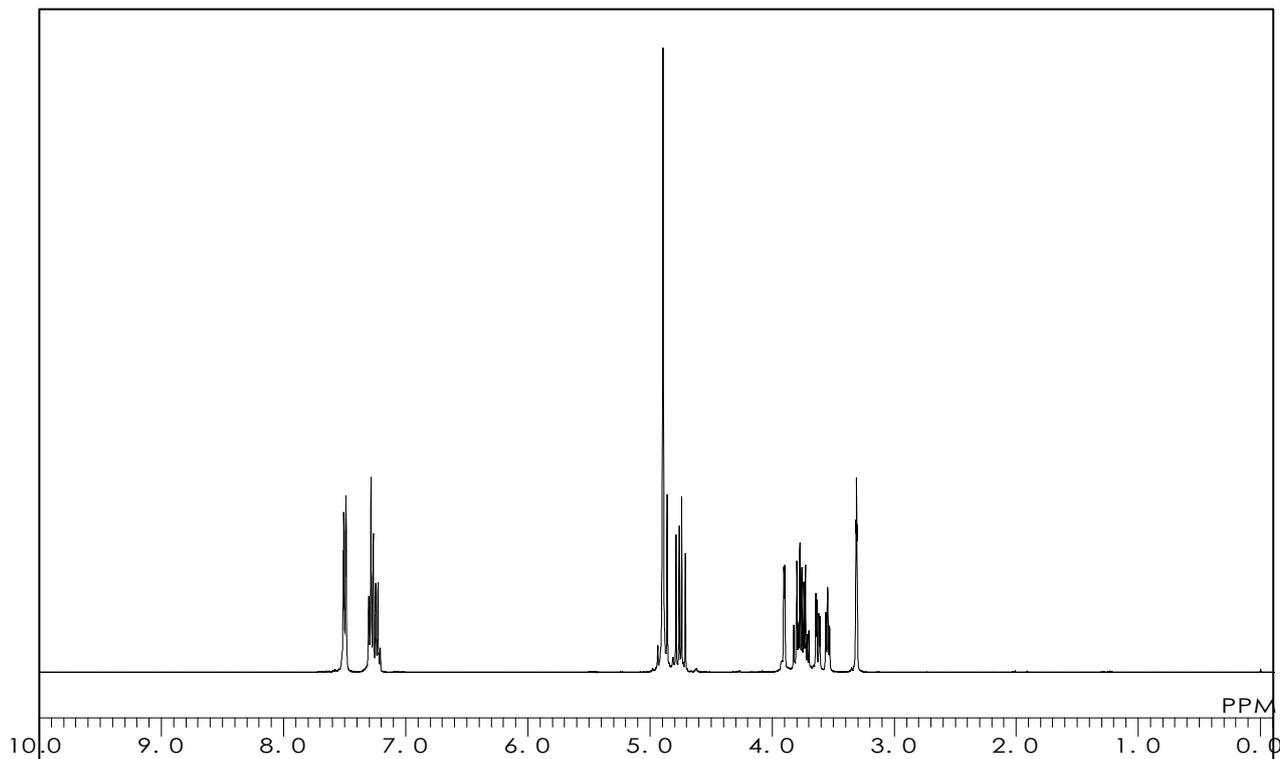
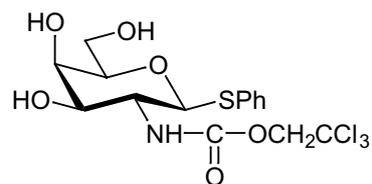
Phenyl 2-Deoxy-1-thio-2-(2,2,2-trichloroethoxyformamido)- β -D-galactopyranoside

$C_{15}H_{18}Cl_3NO_6S = 446.72$ [868230-98-2]

Solvent : CD_3OD

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.2 °C



P1642

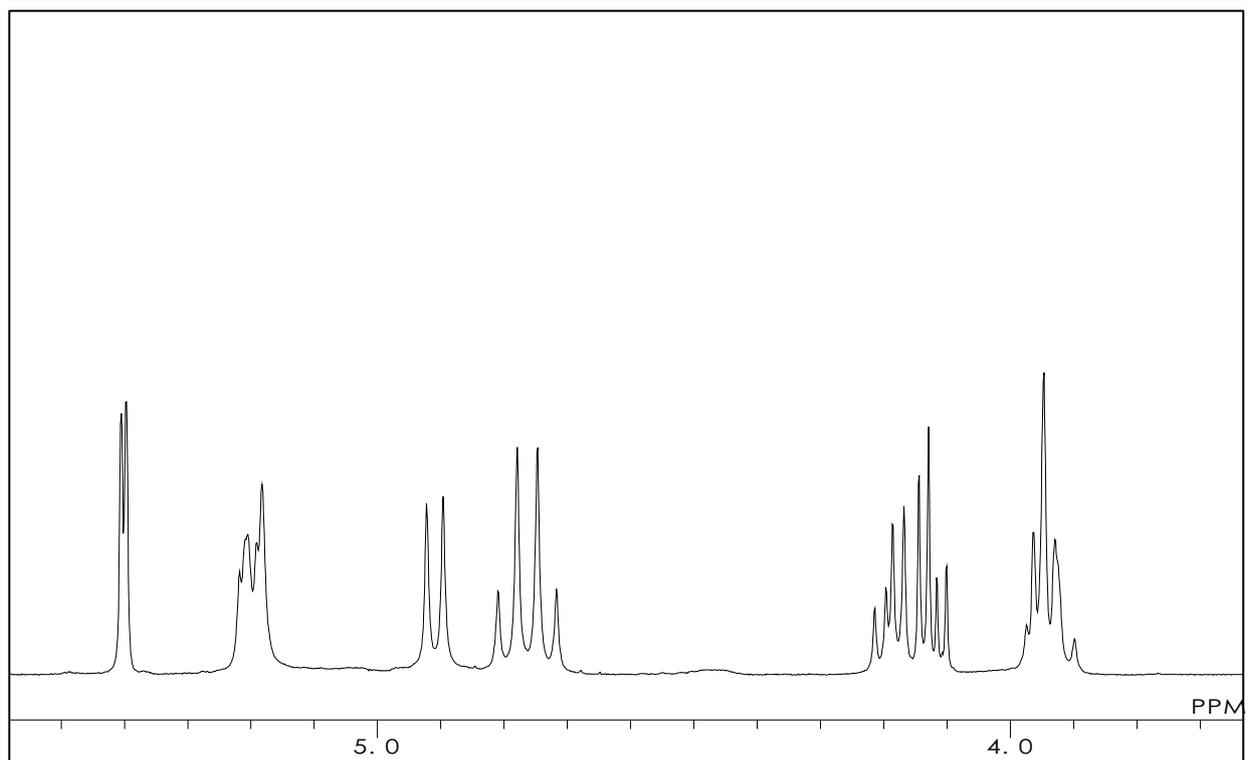
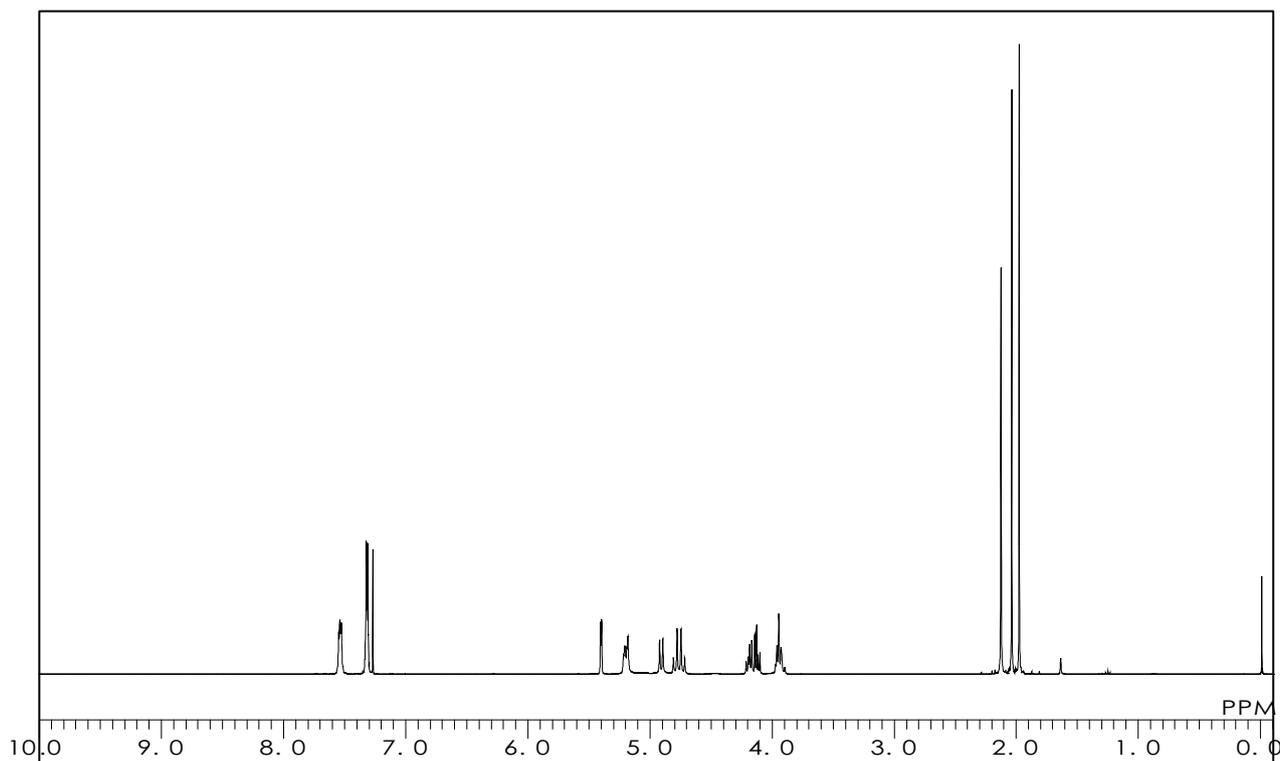
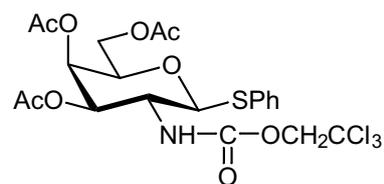
**Phenyl 3,4,6-Tri-O-acetyl-2-deoxy-1-thio-
2-(2,2,2-trichloroethoxyformamido)- β -D-galactopyranoside**

$C_{21}H_{24}Cl_3NO_9S = 572.83$ [278784-83-1]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T1731

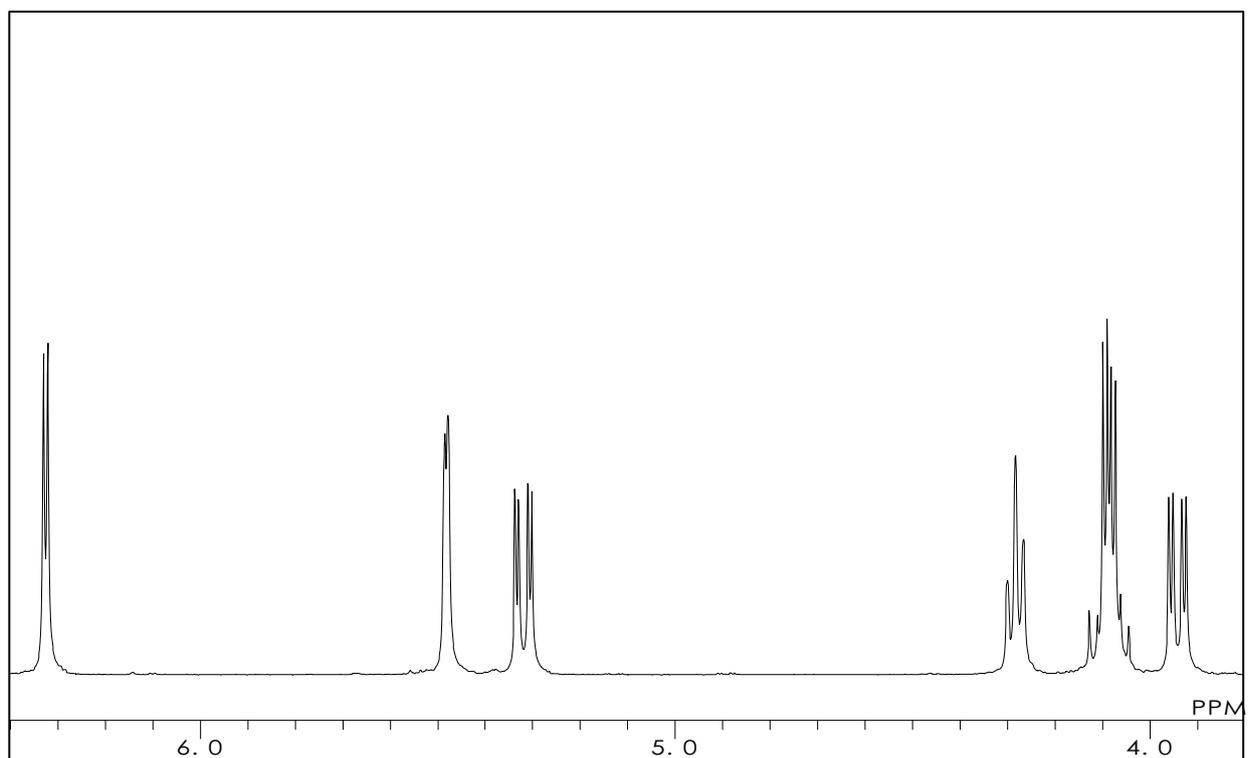
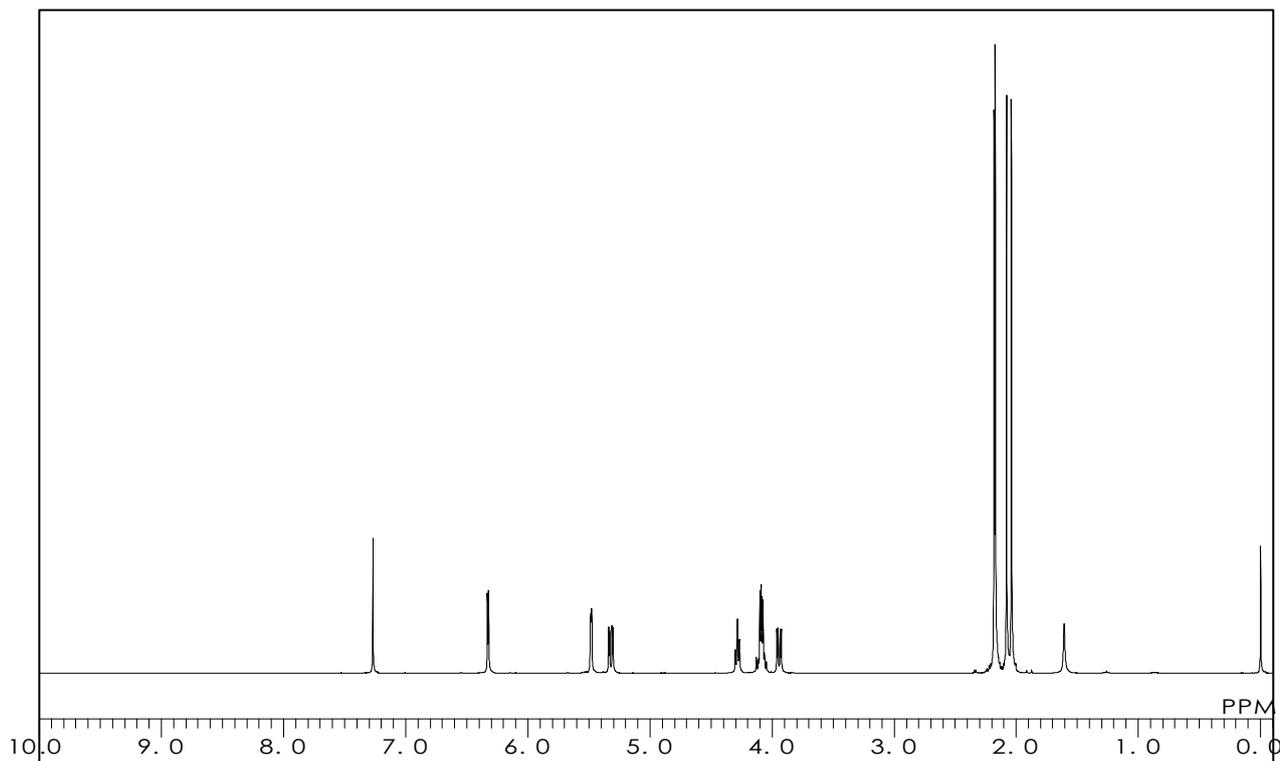
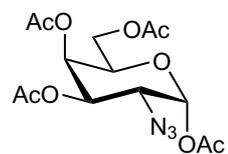
1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α -D-galactopyranose

$C_{14}H_{19}N_3O_9 = 373.32$ [67817-30-5]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.9 °C



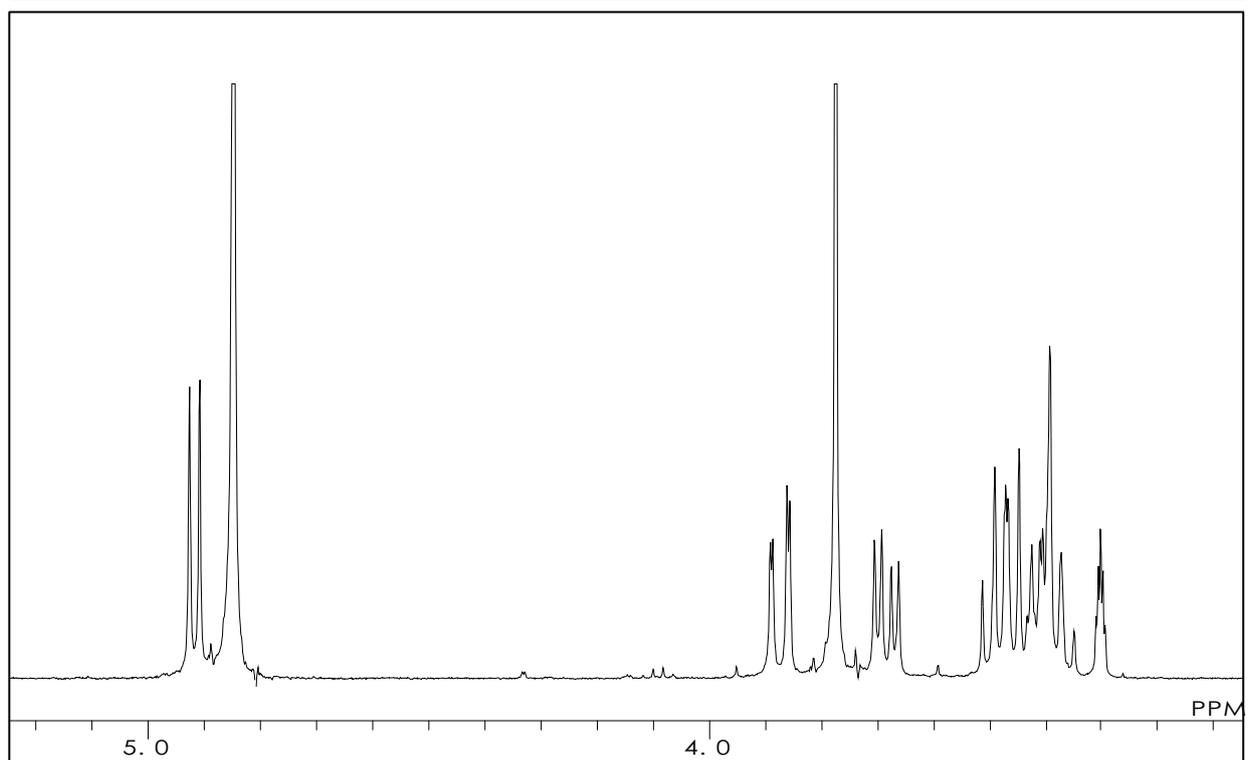
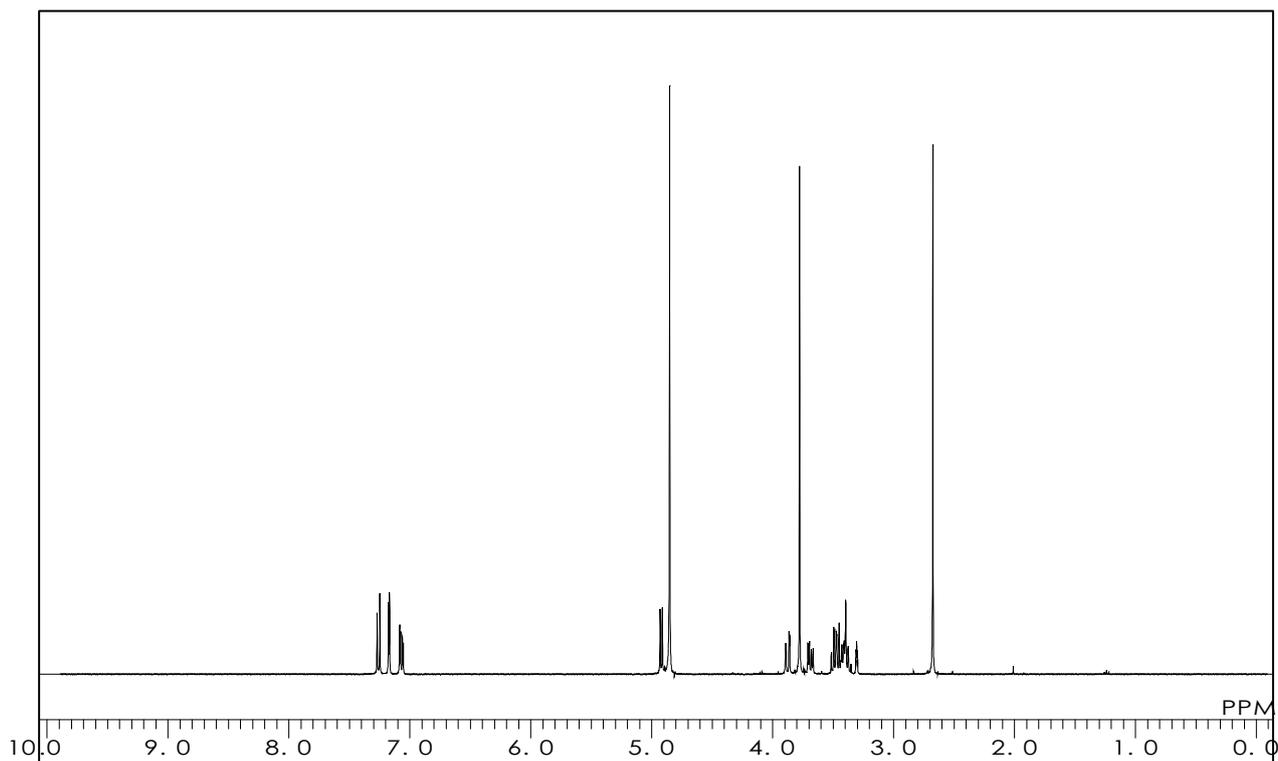
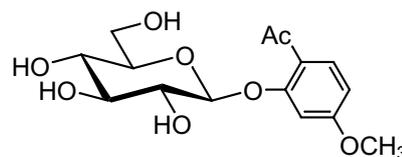
A2253

2-Acetyl-5-methoxyphenyl β -D-Glucopyranoside

$C_{15}H_{20}O_8 = 328.32$ [20309-70-0]

Solvent : CD_3OD

Measured Temperature : 24.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

A2377

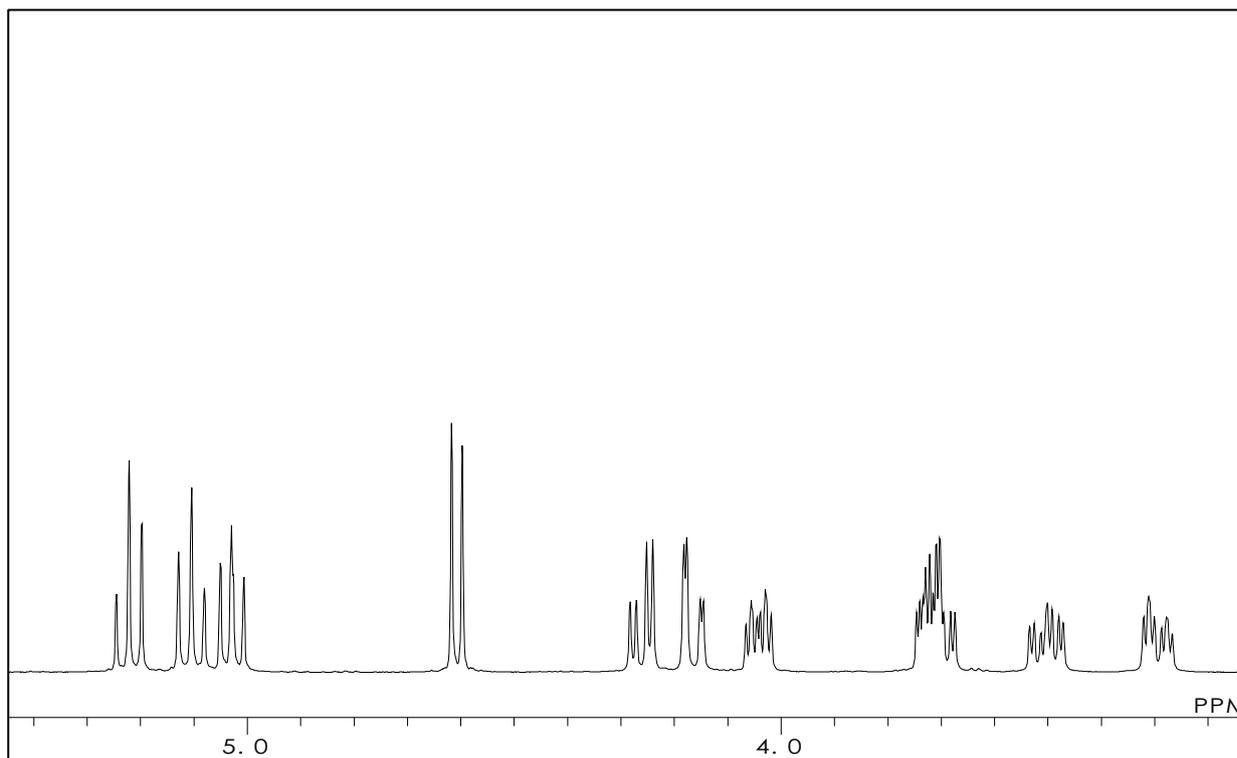
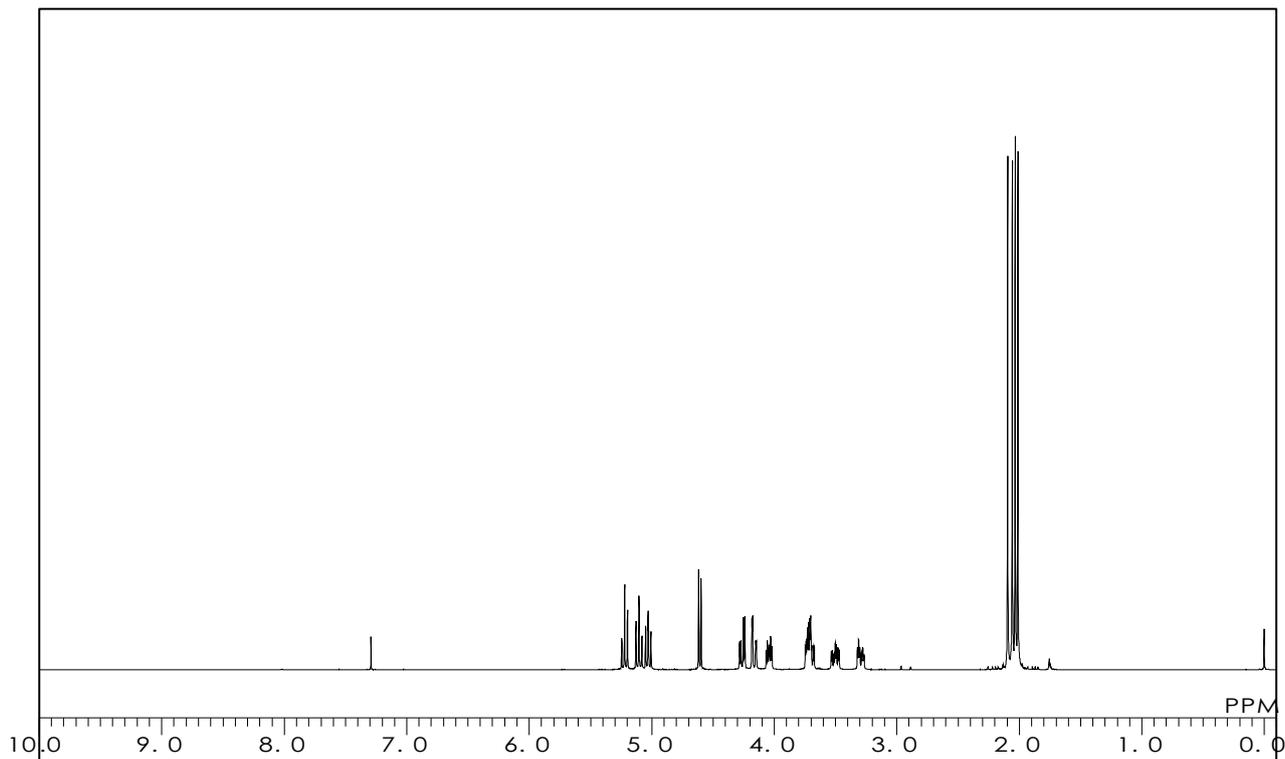
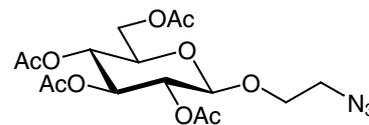
2-Azidoethyl 2,3,4,6-Tetra-O-acetyl-β-D-glucopyranoside

$C_{16}H_{23}N_3O_{10} = 417.37$ [140428-81-5]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

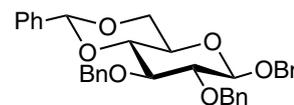
Measured Temperature : 22.5 °C



B4170

Benzyl 2,3-Di-O-benzyl-4,6-O-benzylidene- β -D-glucopyranoside

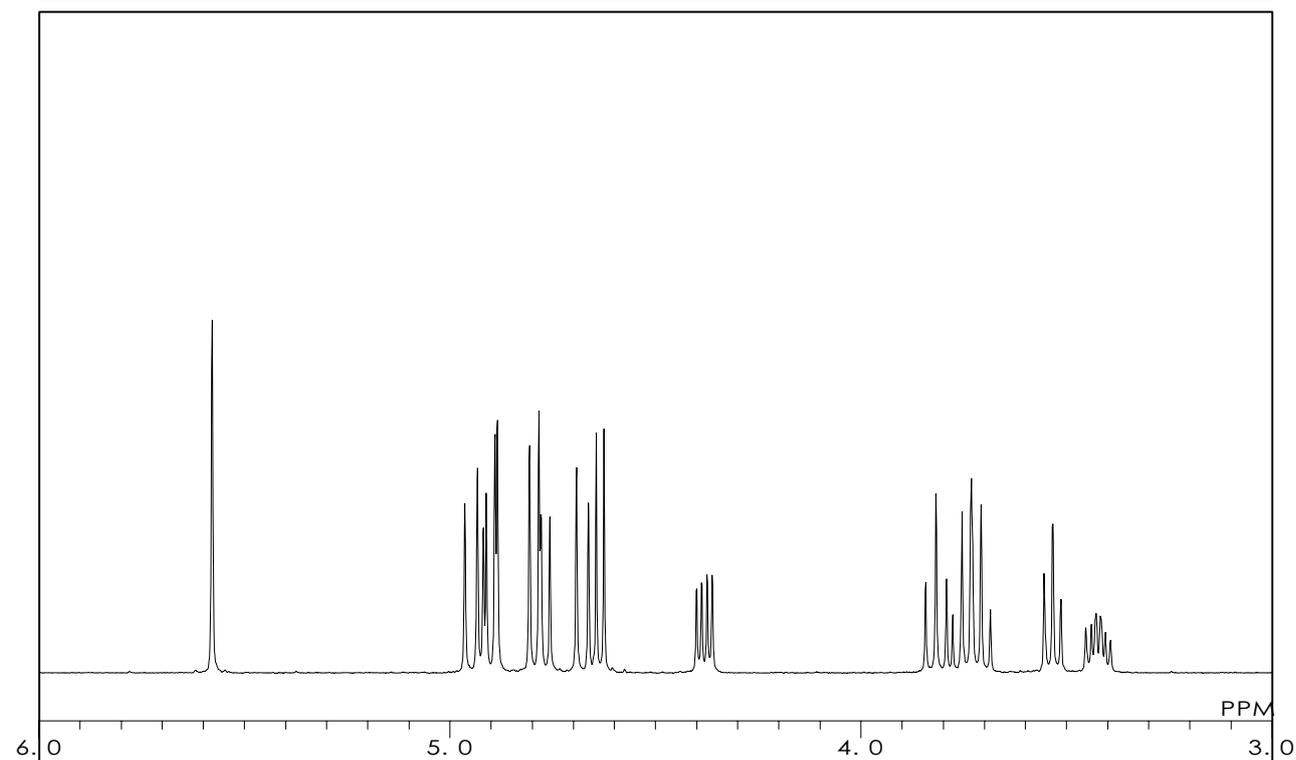
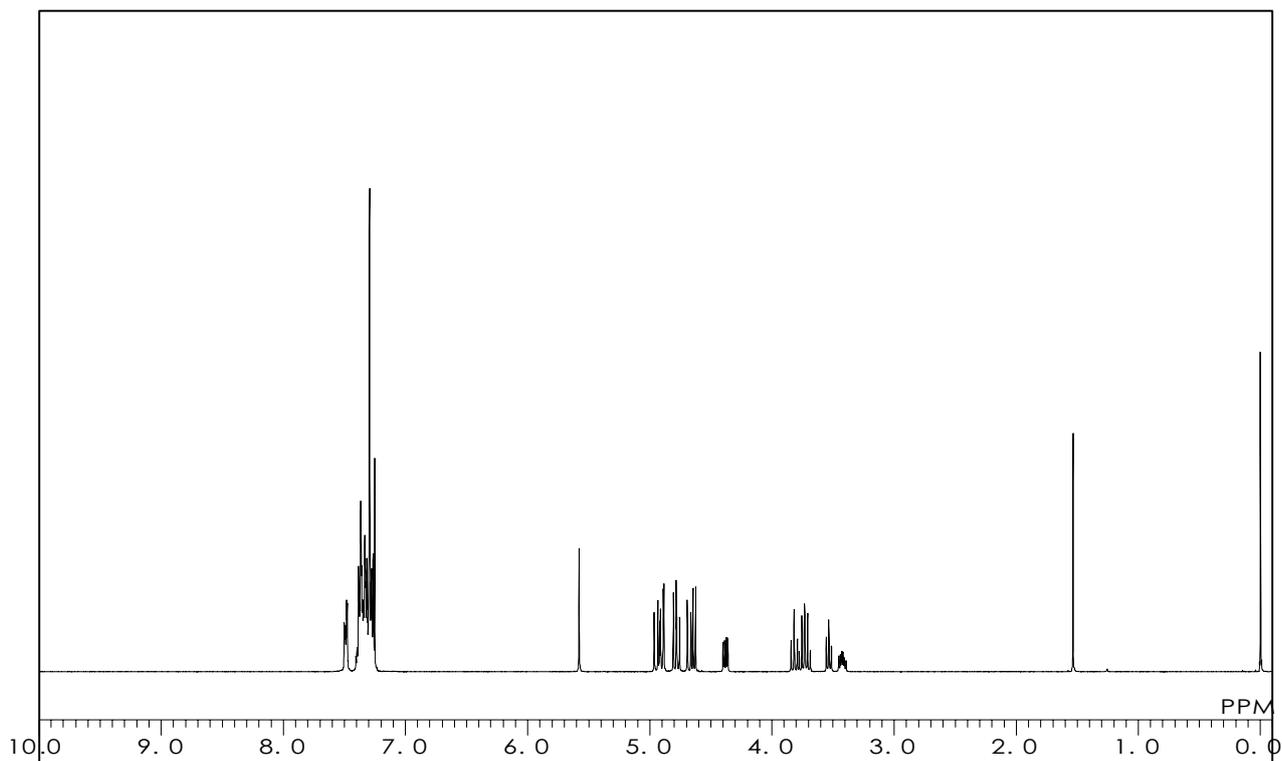
$C_{34}H_{34}O_6 = 538.64$ [183953-29-9]



Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 25.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

B4171

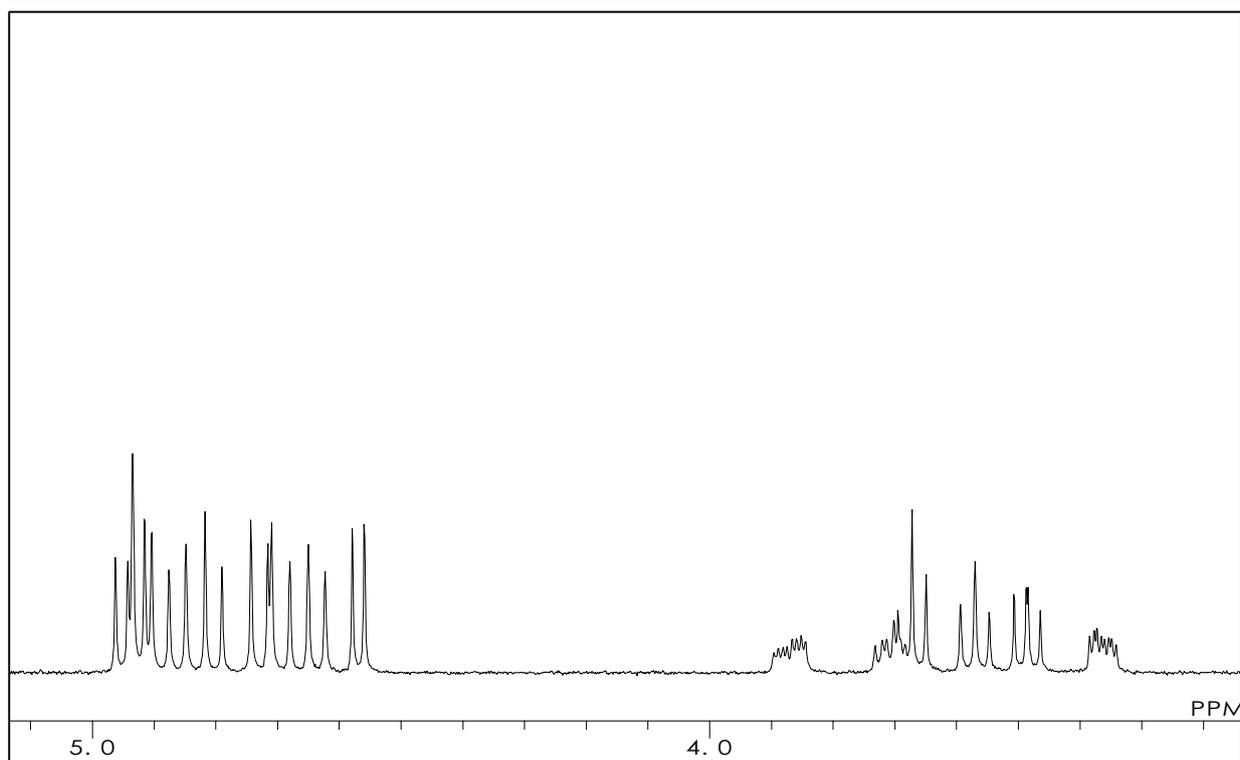
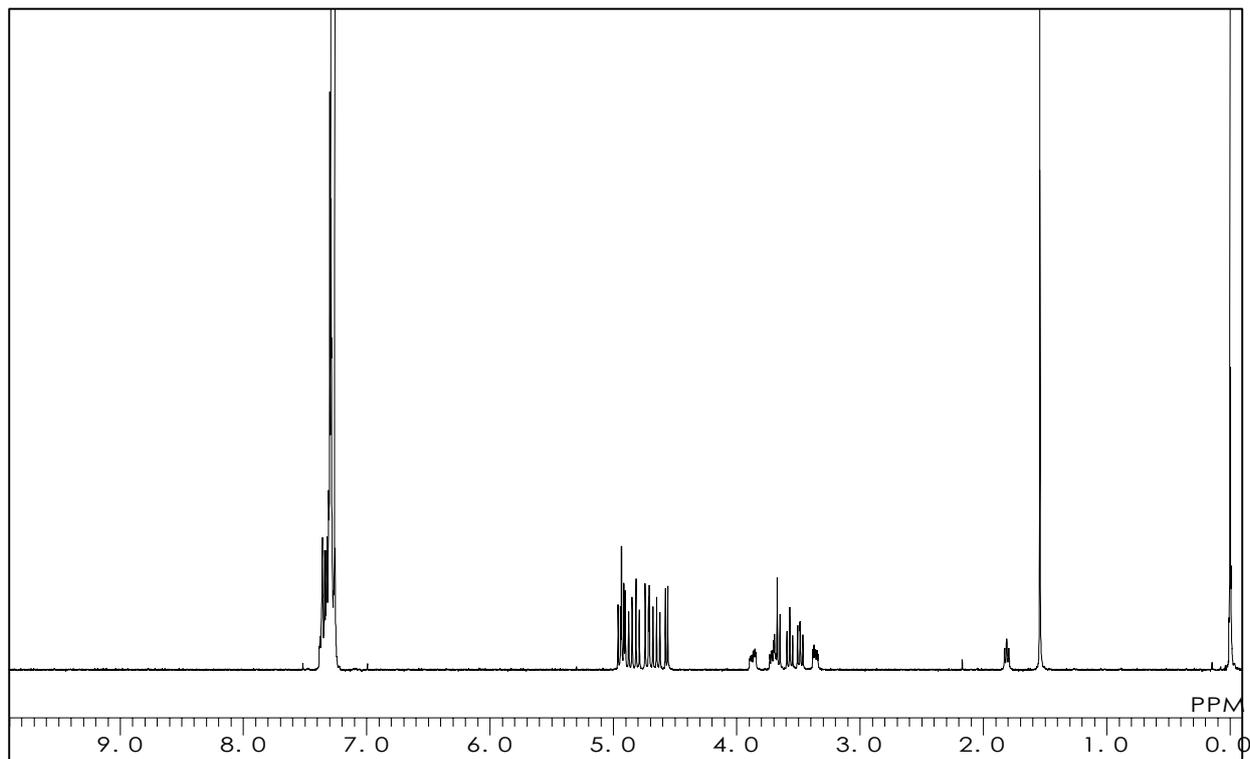
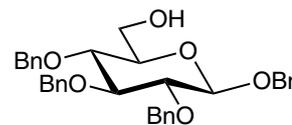
Benzyl 2,3,4-Tri-O-benzyl-β-D-glucopyranoside

$C_{34}H_{36}O_6 = 540.66$ [27851-29-2]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 23.8 °C



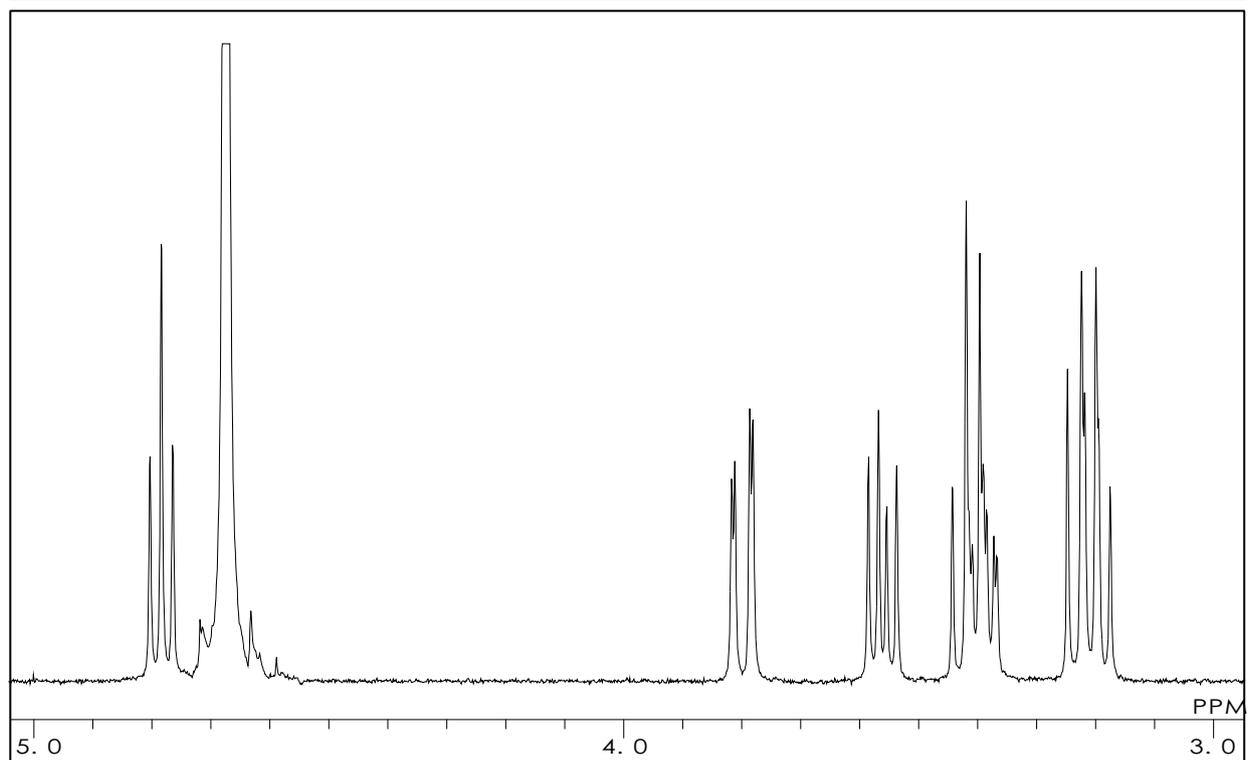
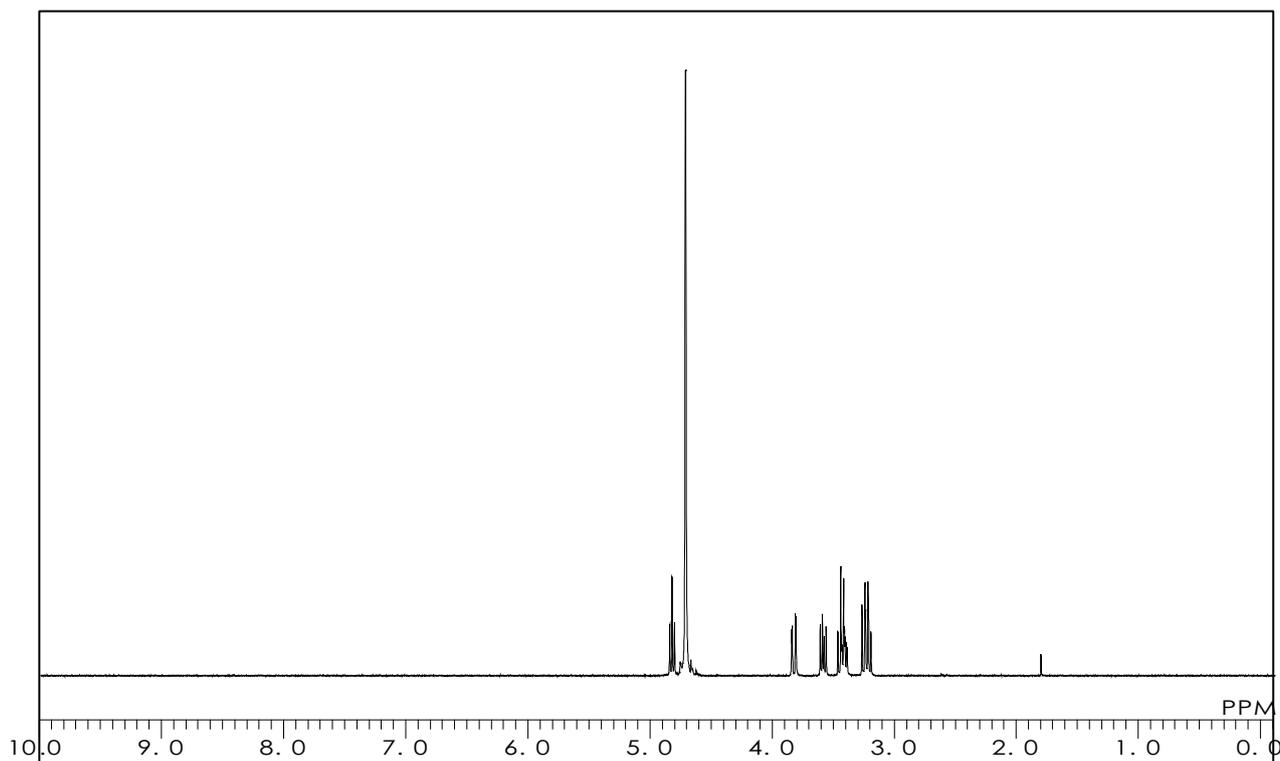
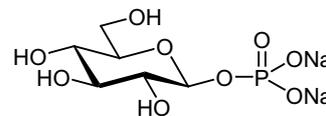
G0339

β -D-Glucopyranose 1-Phosphate Disodium Salt

$C_6H_{11}Na_2O_9P = 304.10$ [83833-15-2]

Solvent : D_2O

Measured Temperature : 24.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M2434

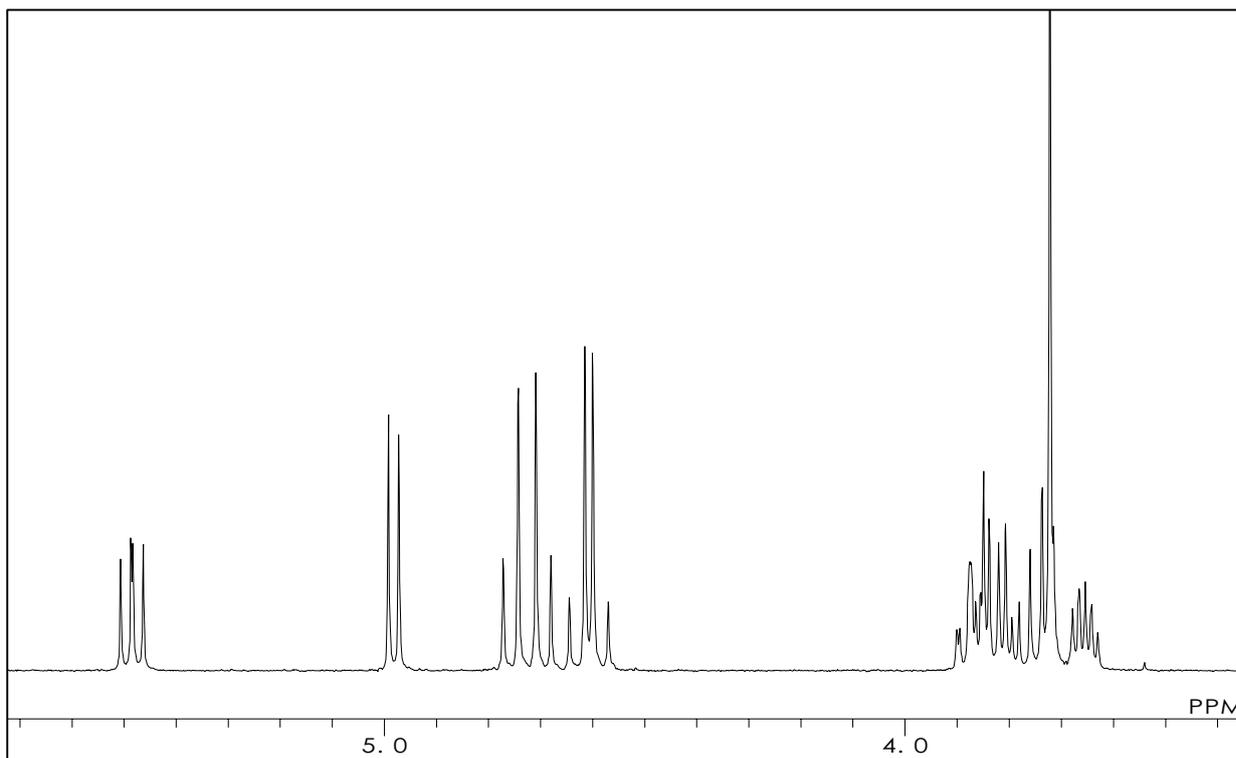
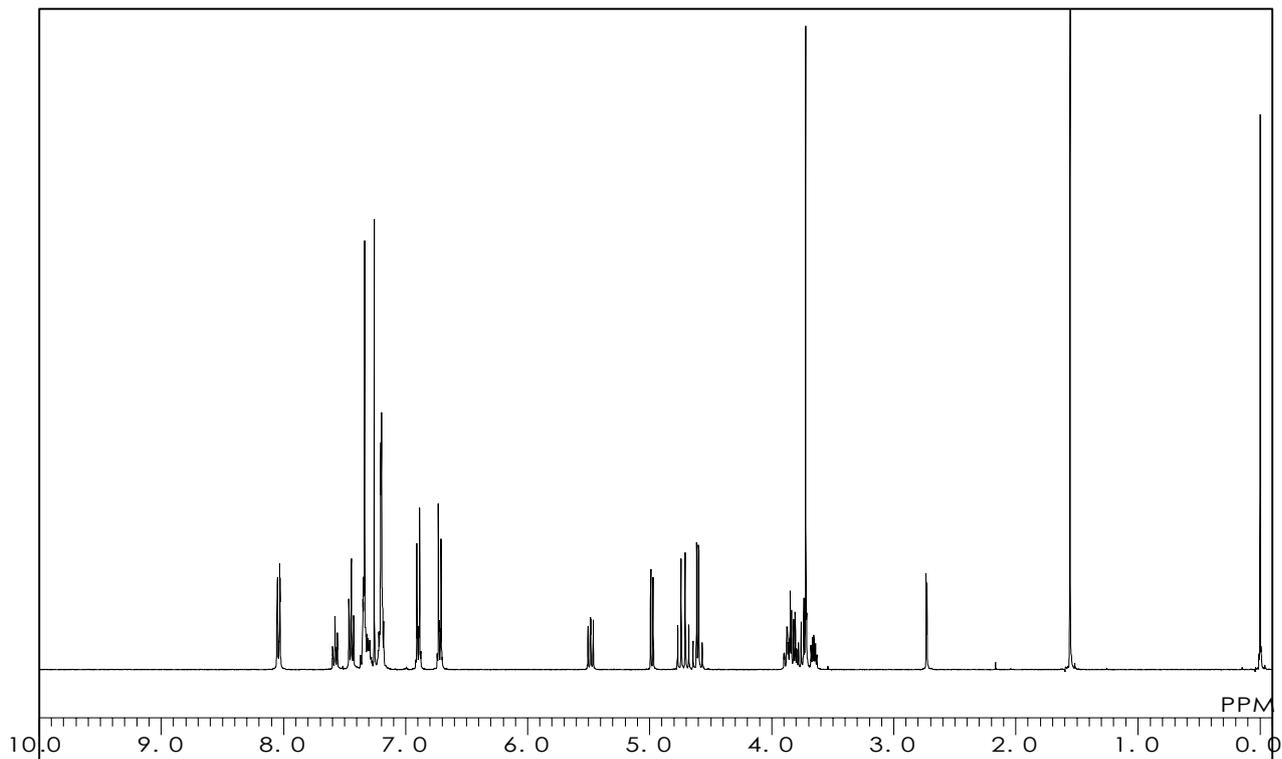
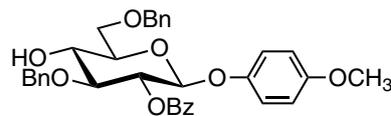
**4-Methoxyphenyl 2-O-Benzoyl-3,6-di-O-benzyl-
β-D-glucopyranoside**

C₃₄H₃₄O₈ = 570.64 [1393898-89-9]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 27.7 °C



M1640

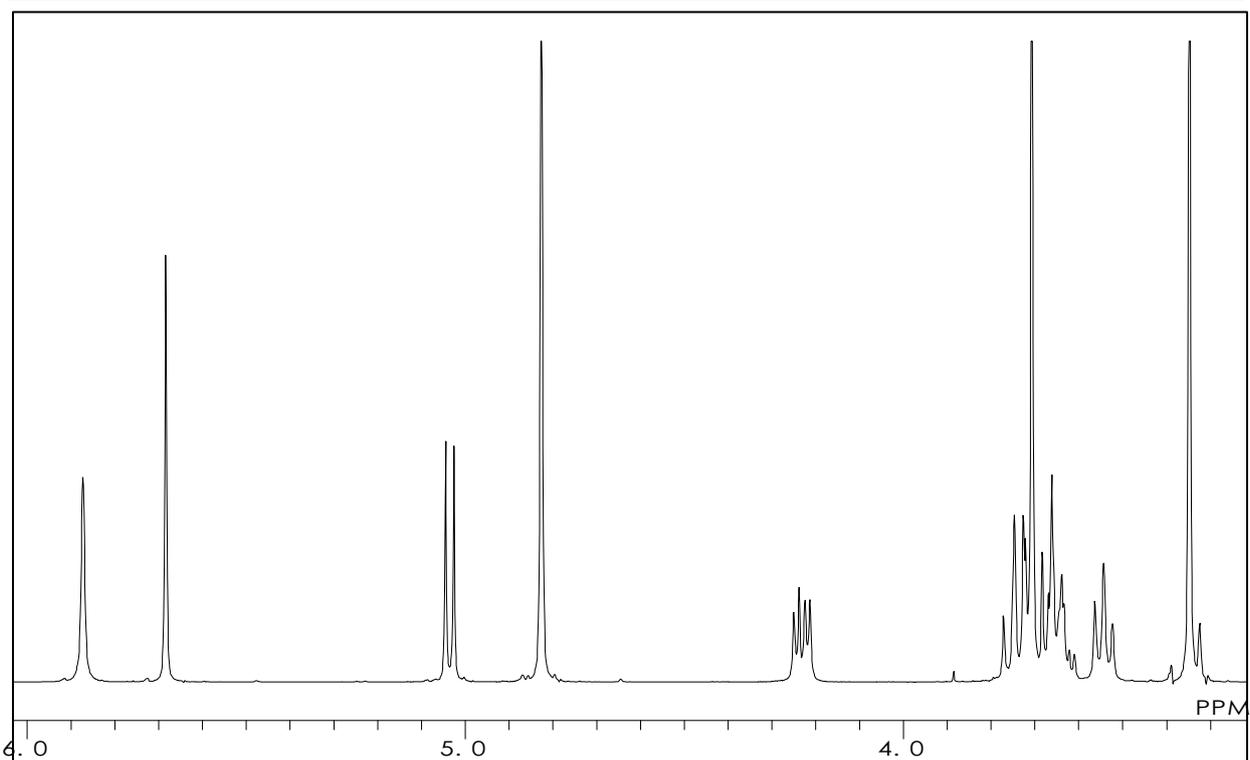
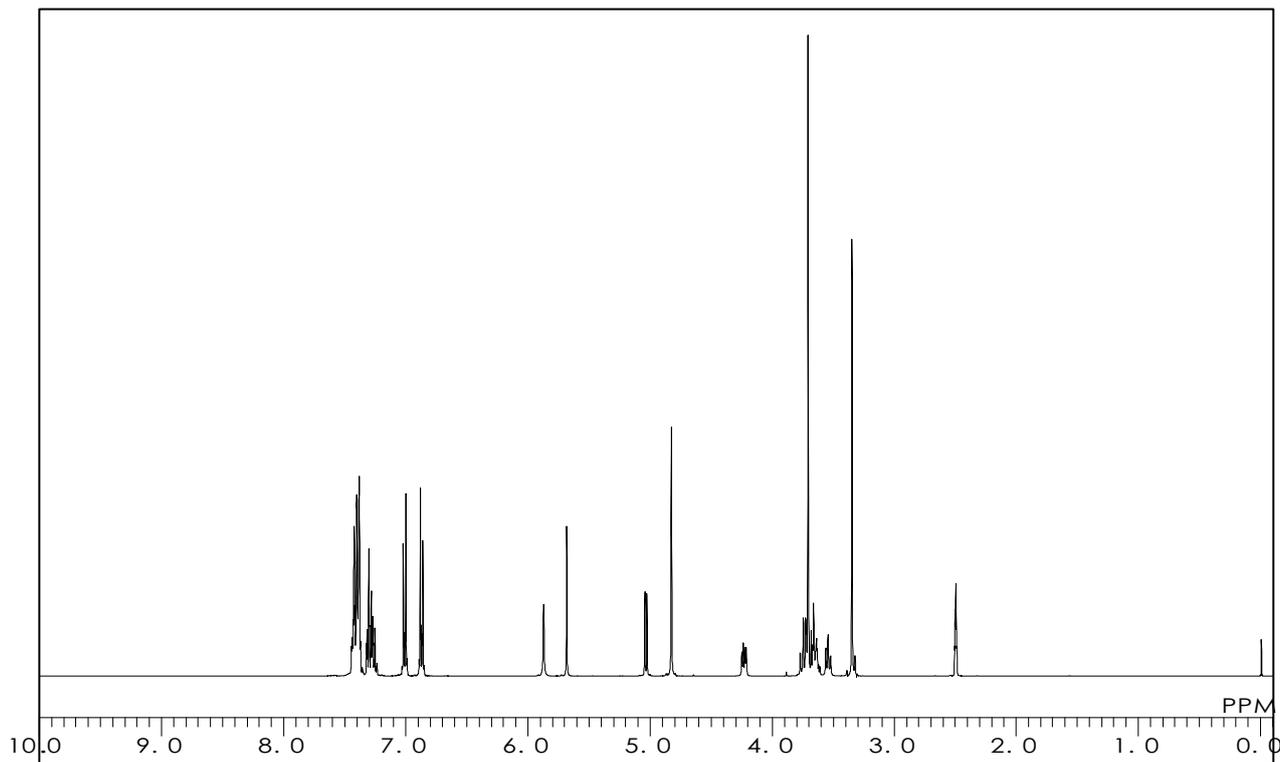
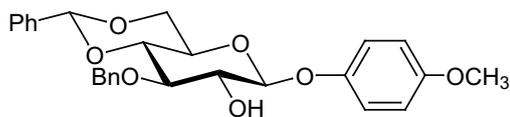
4-Methoxyphenyl 3-O-Benzyl-4,6-O-benzylidene-β-D-glucopyranoside

C₂₇H₂₈O₇ = 464.51 [303127-81-3]

Solvent : DMSO-d₆

Internal Standard : Si(CH₃)₄

Measured Temperature : 21.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1641

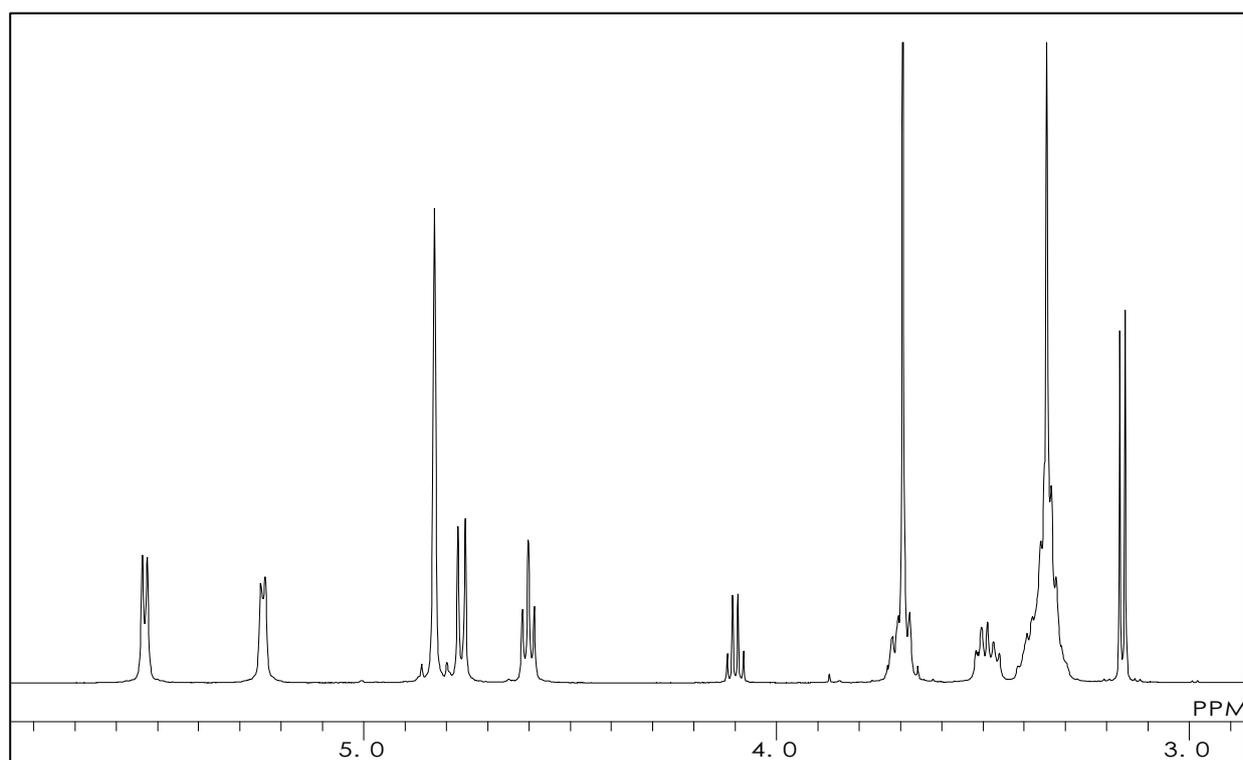
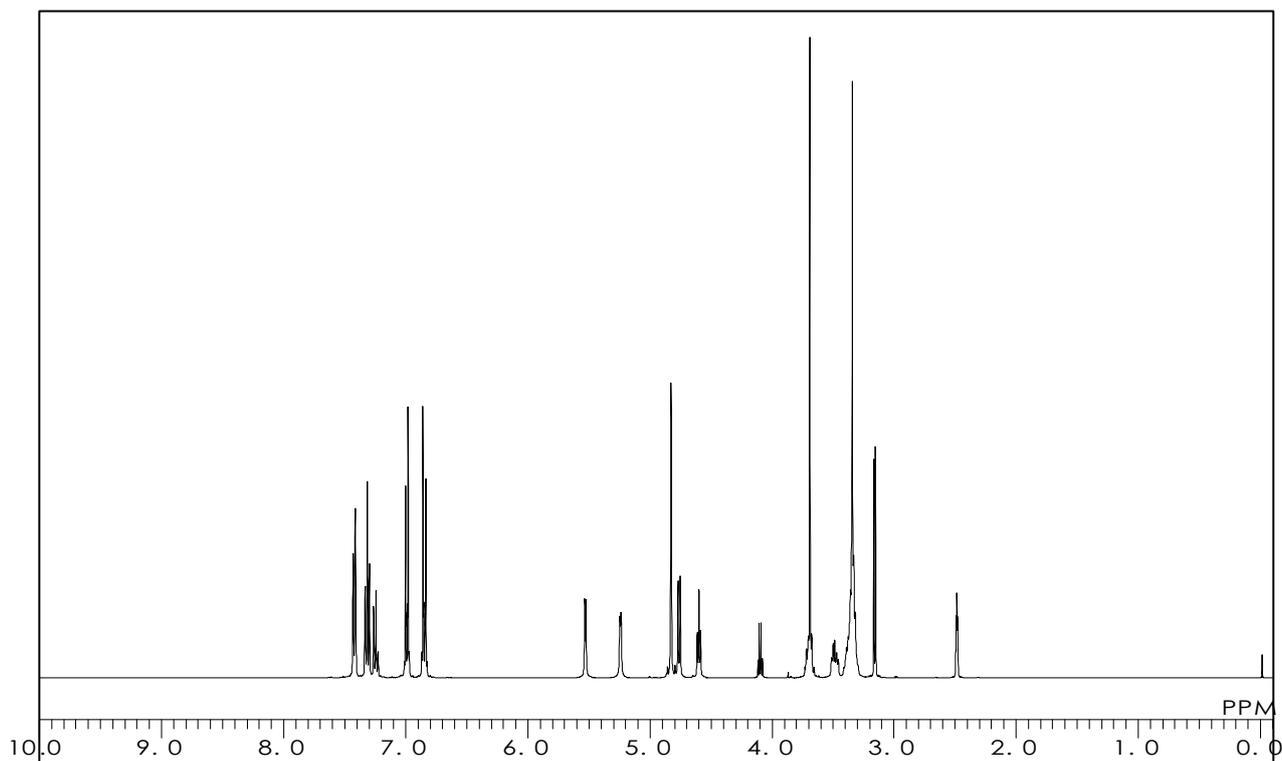
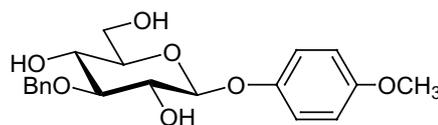
4-Methoxyphenyl 3-O-Benzyl-β-D-glucopyranoside

C₂₀H₂₄O₇ = 376.41 [303127-80-2]

Solvent : DMSO-d₆

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.7 °C



M1631

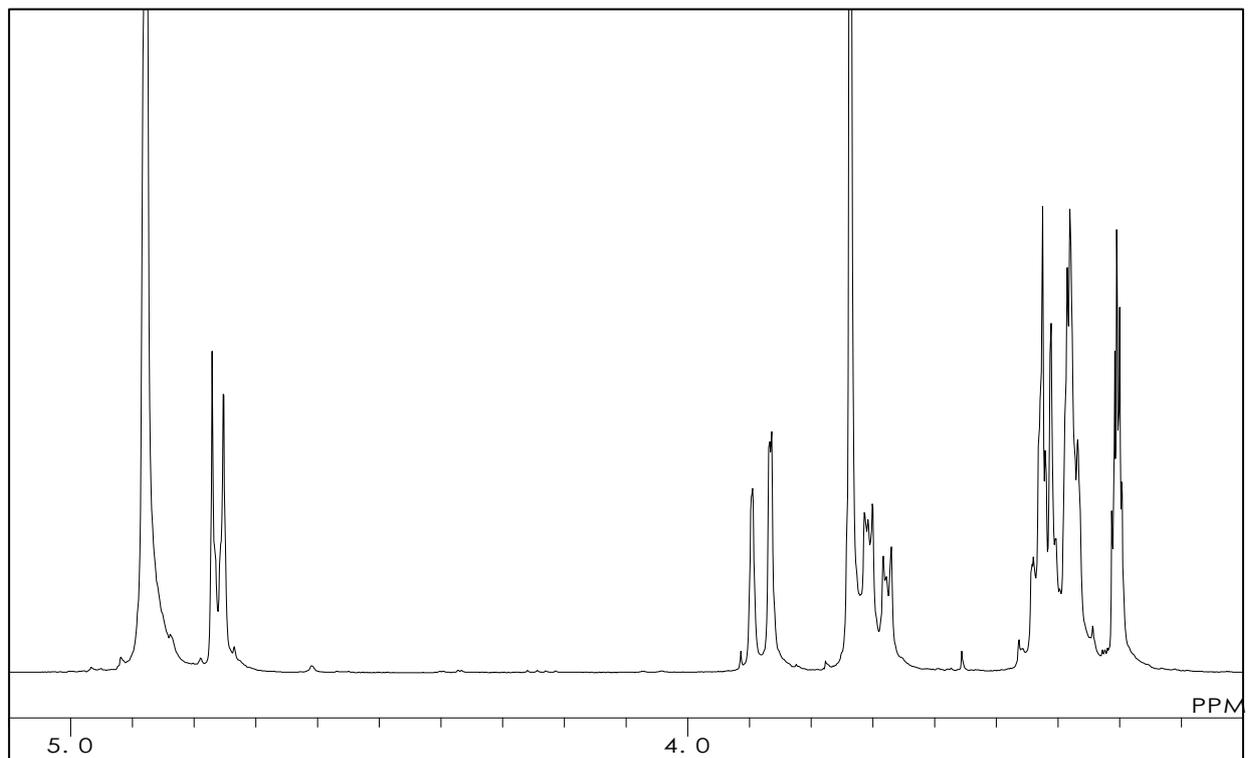
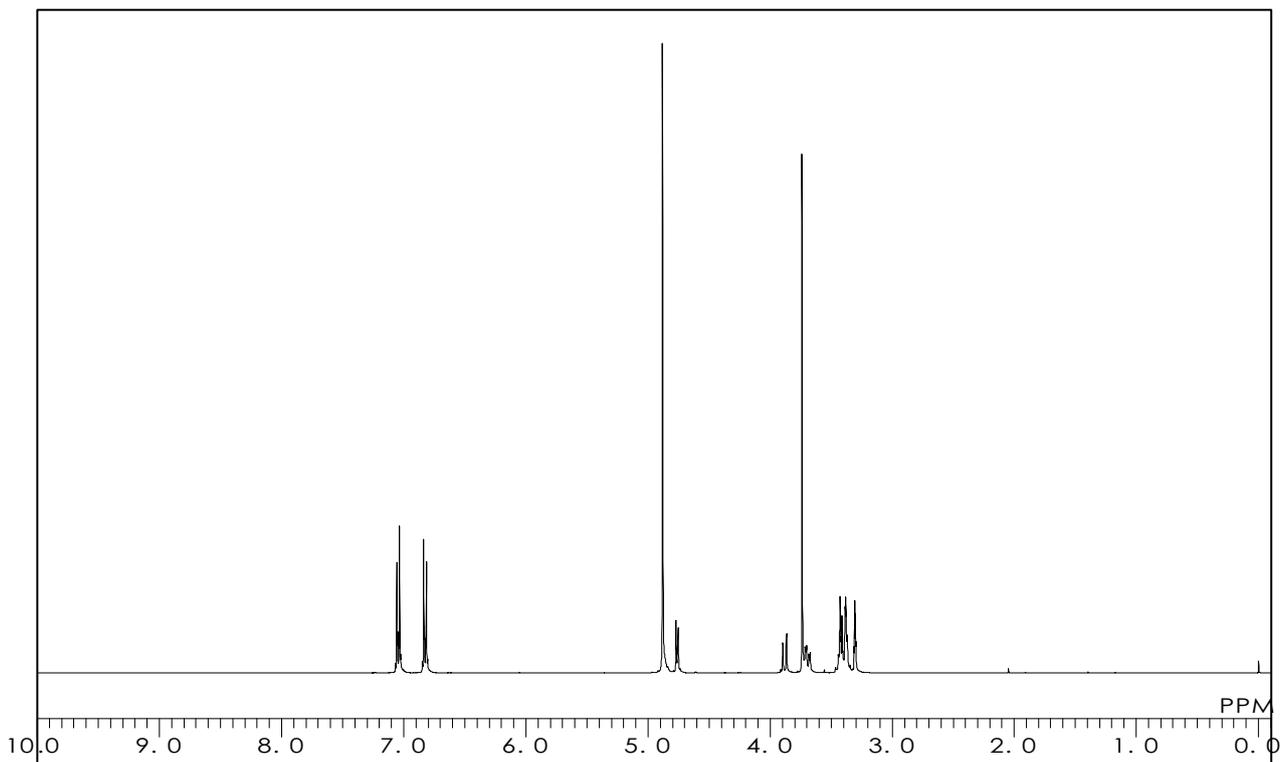
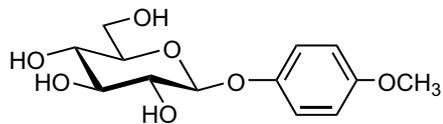
4-Methoxyphenyl β-D-Glucopyranoside

C₁₃H₁₈O₇ = 286.28 [6032-32-2]

Solvent : CD₃OD

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1630

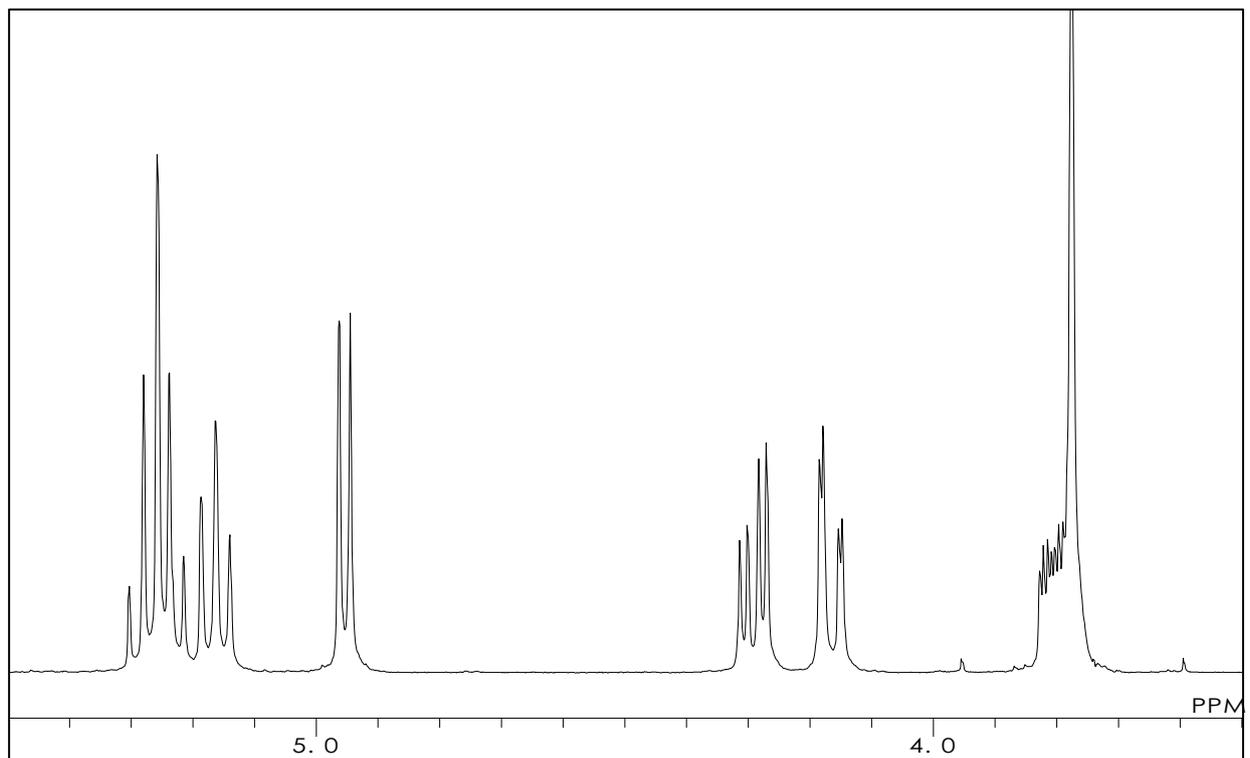
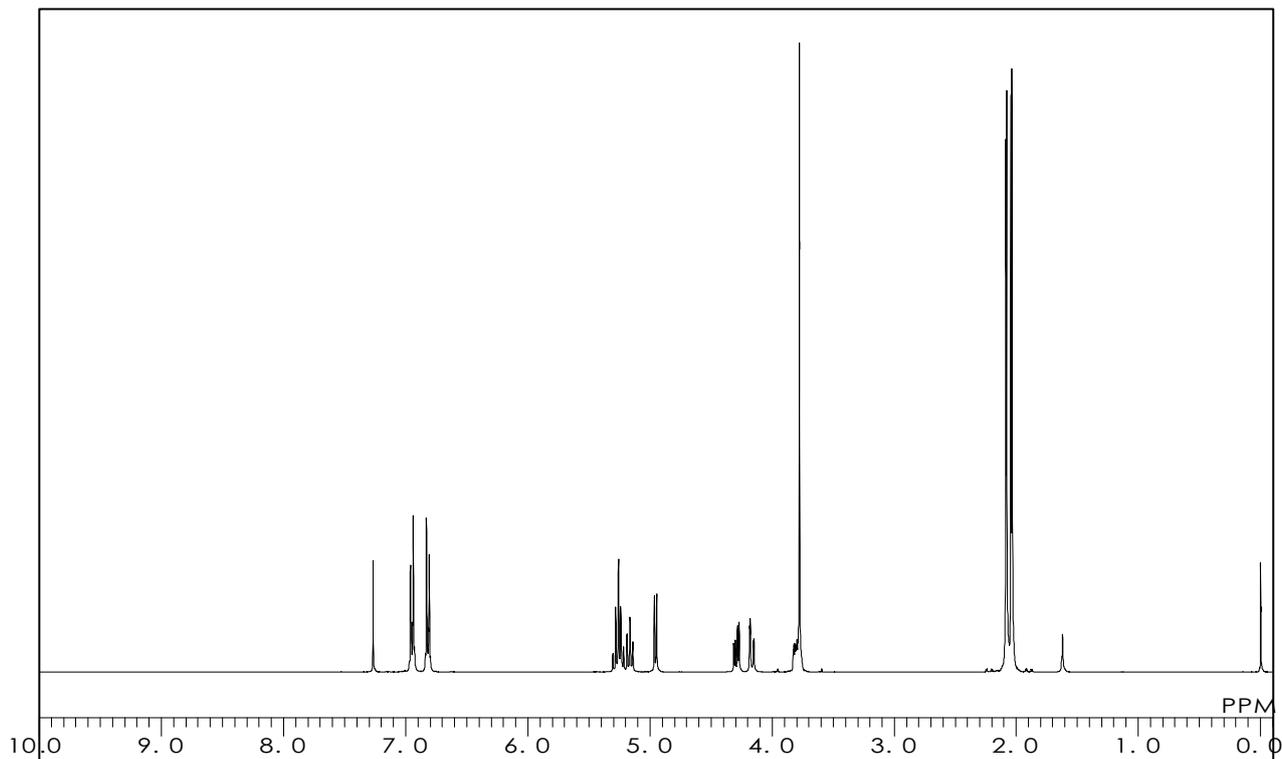
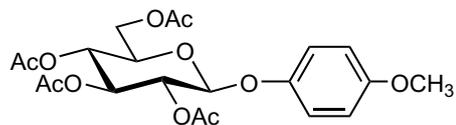
4-Methoxyphenyl 2,3,4,6-Tetra-O-acetyl-β-D-glucopyranoside

C₂₁H₂₆O₁₁ = 454.43 [14581-81-8]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

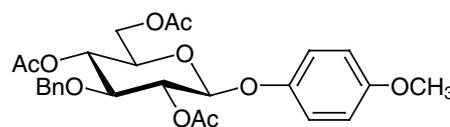
Measured Temperature : 21.2 °C



M1642

4-Methoxyphenyl 2,4,6-Tri-O-acetyl-3-O-benzyl-β-D-glucopyranoside

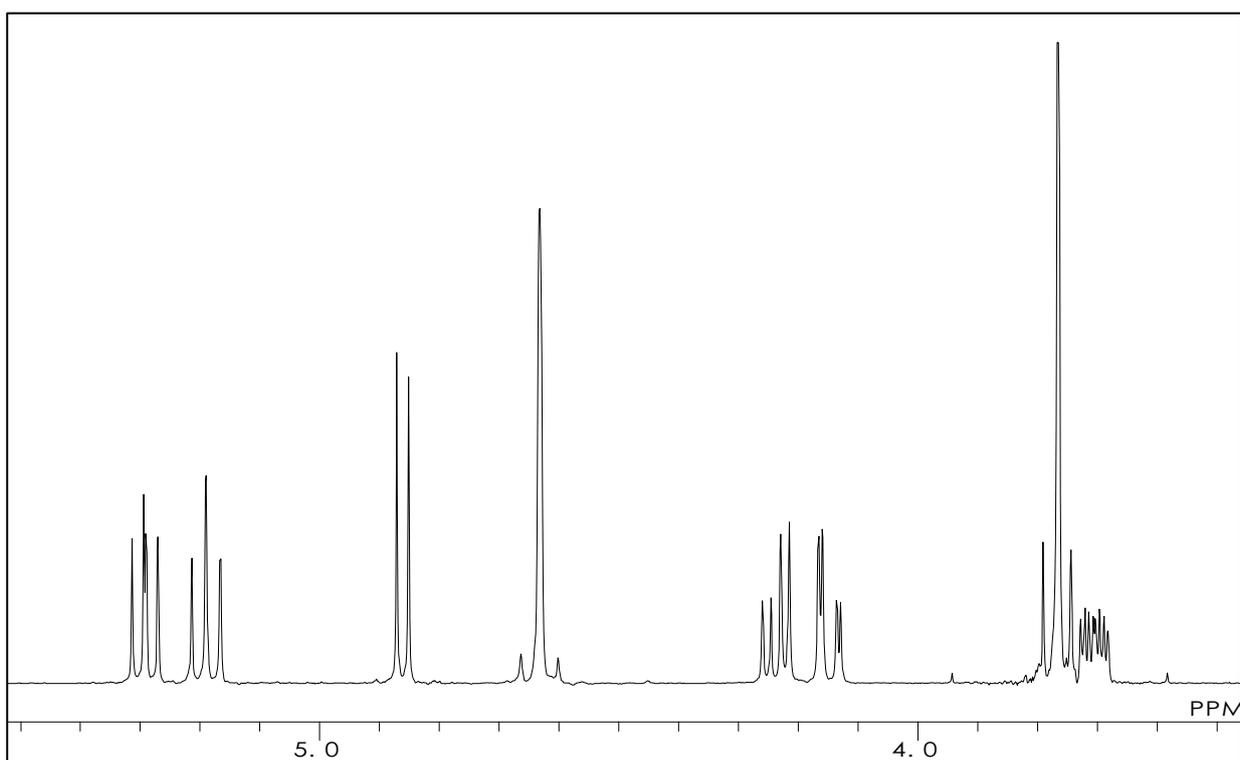
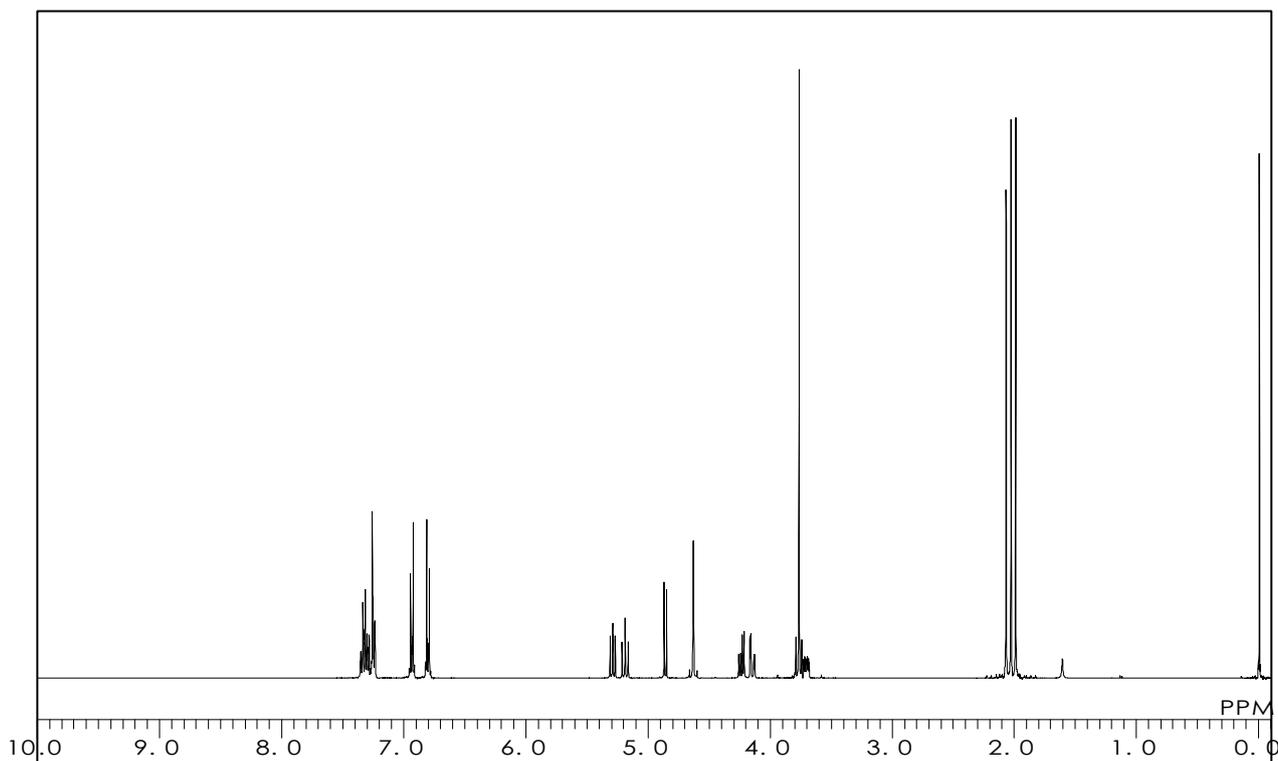
C₂₆H₃₀O₁₀ = 502.52 [303127-79-9]



Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 25.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1682

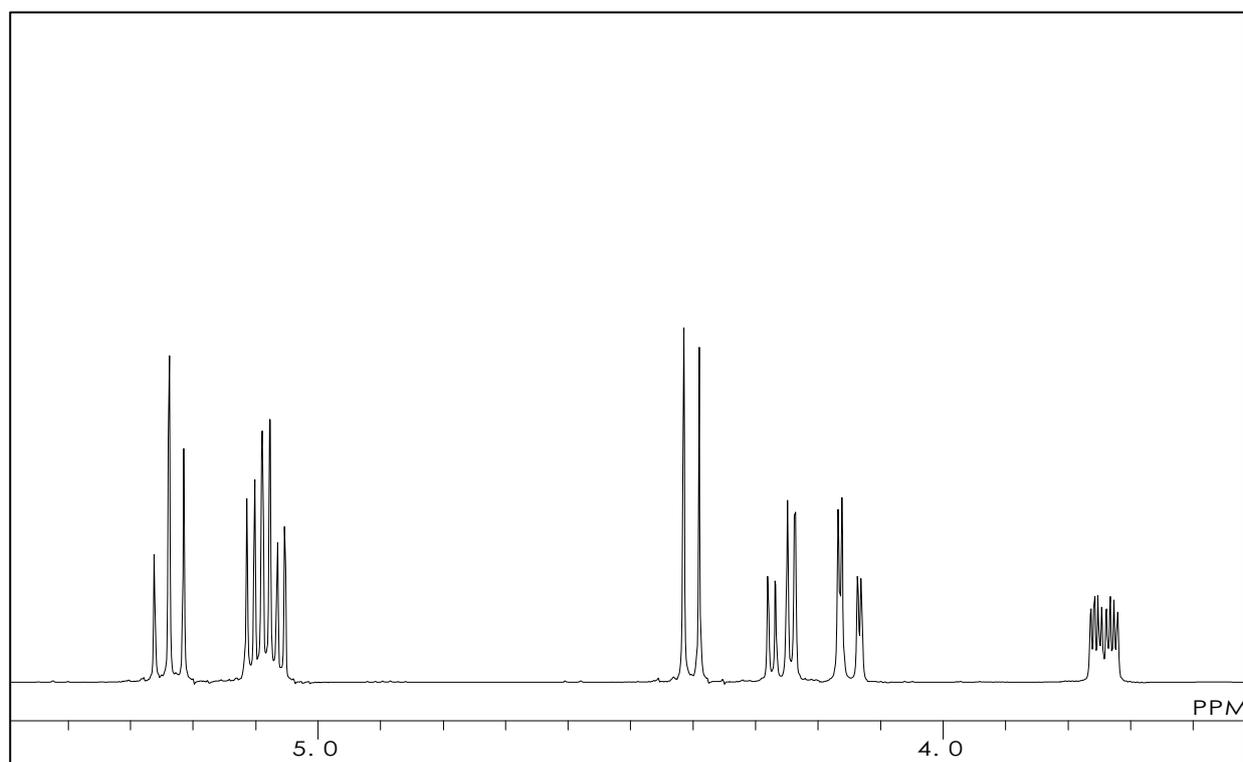
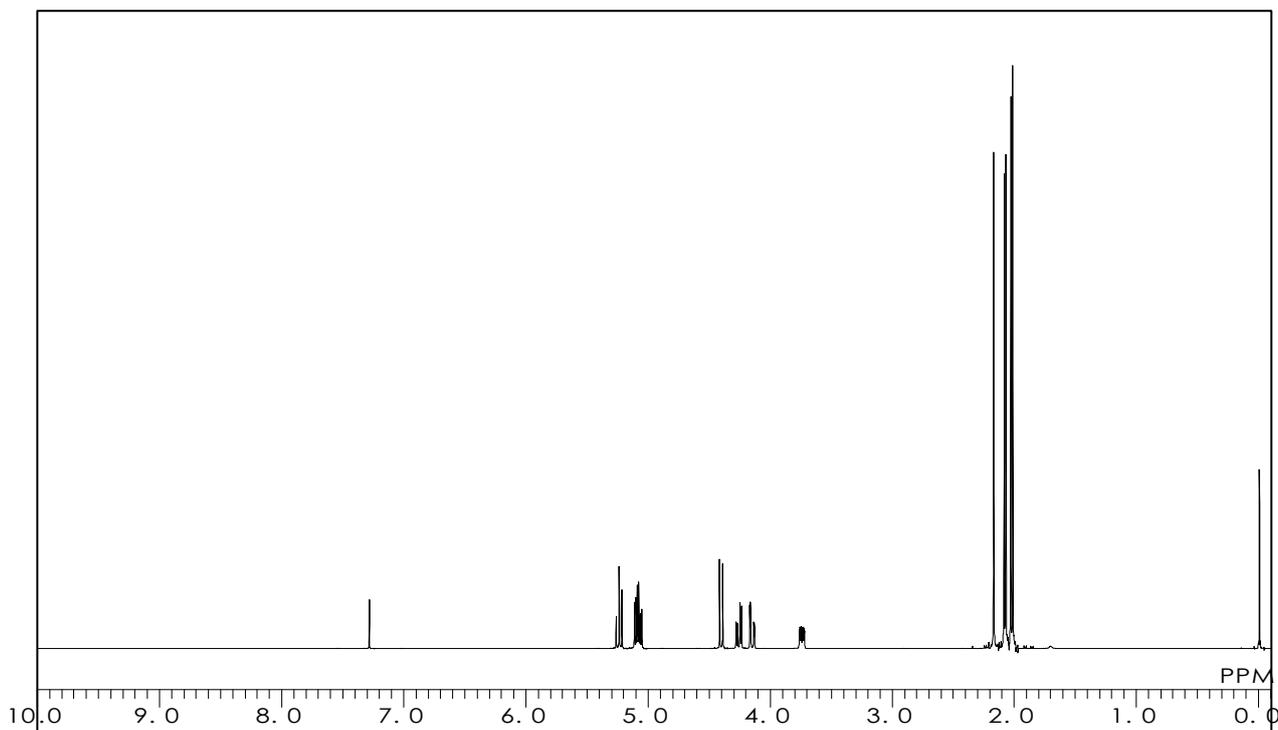
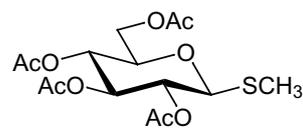
Methyl 2,3,4,6-Tetra-O-acetyl-1-thio-β-D-glucopyranoside

C₁₅H₂₂O₉S = 378.39 [13350-45-3]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.0 °C



M1487

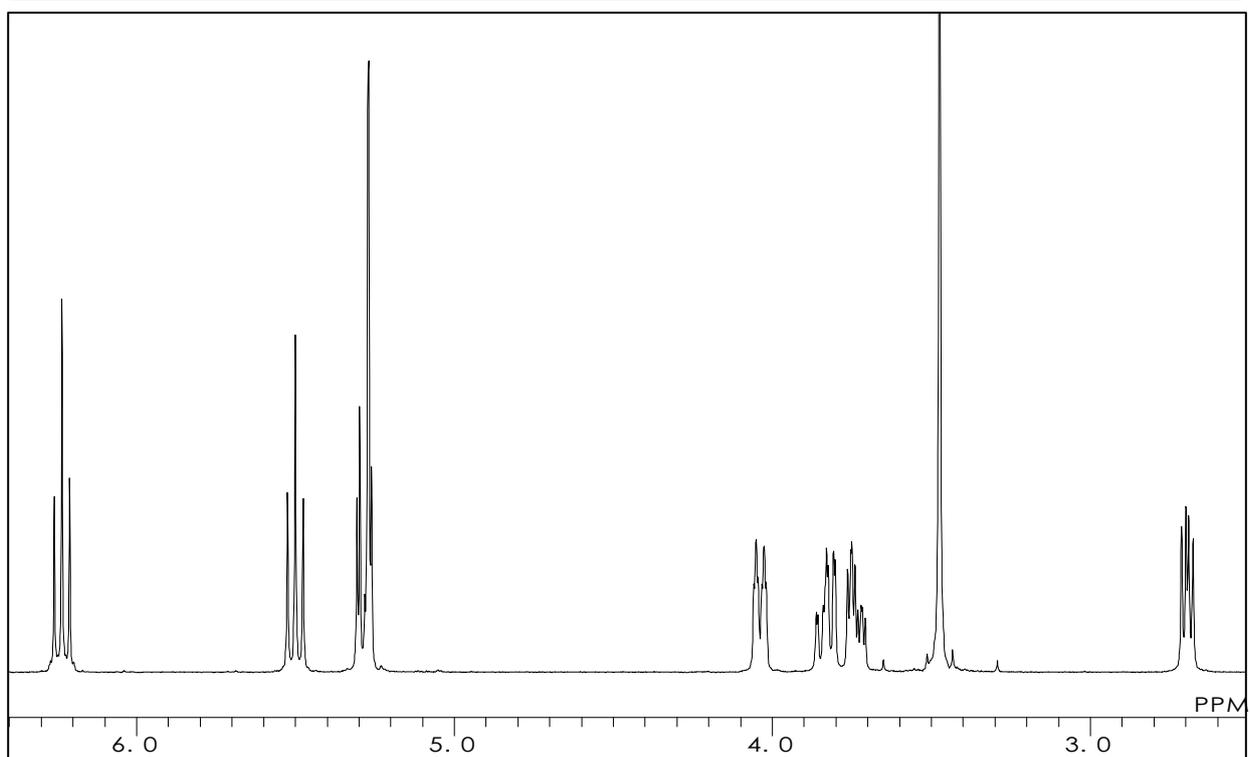
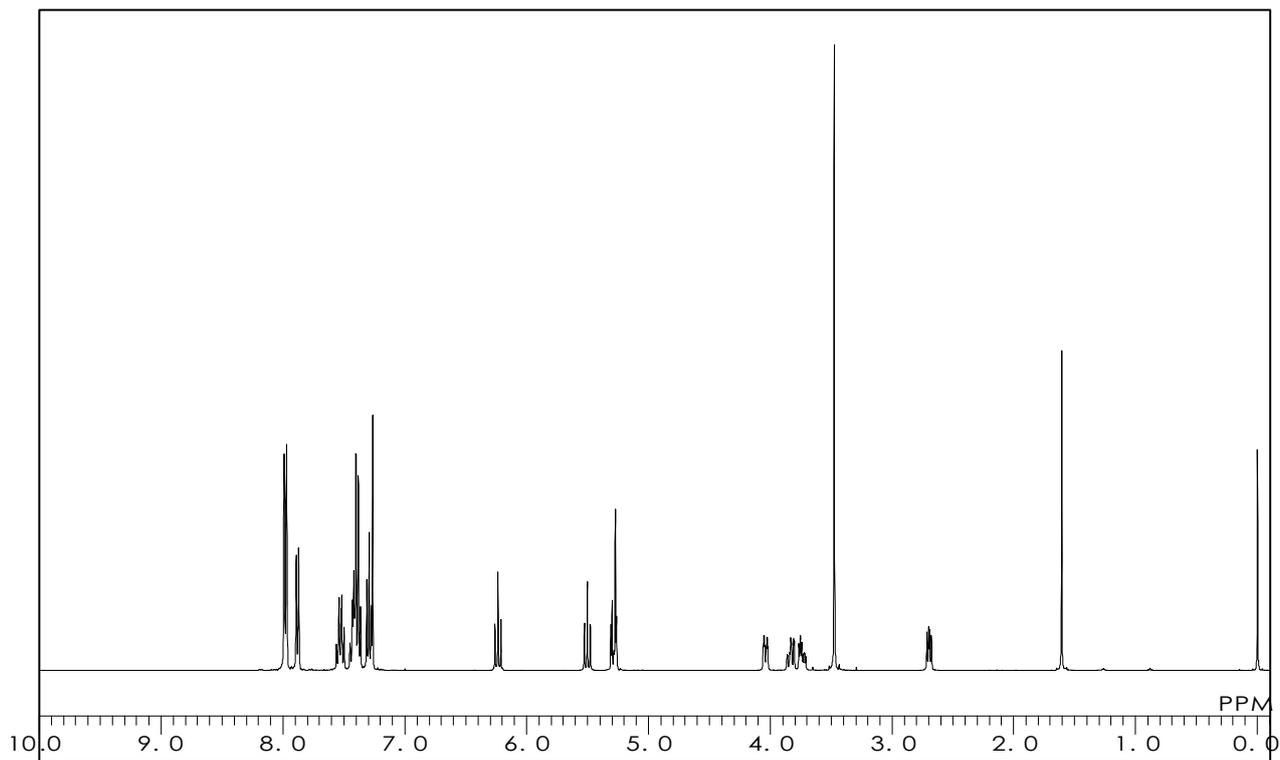
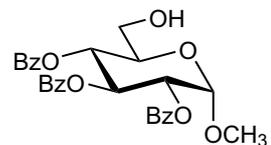
Methyl 2,3,4-Tri-O-benzoyl- α -D-glucopyranoside

$C_{28}H_{26}O_9 = 506.51$ [34234-44-1]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1488

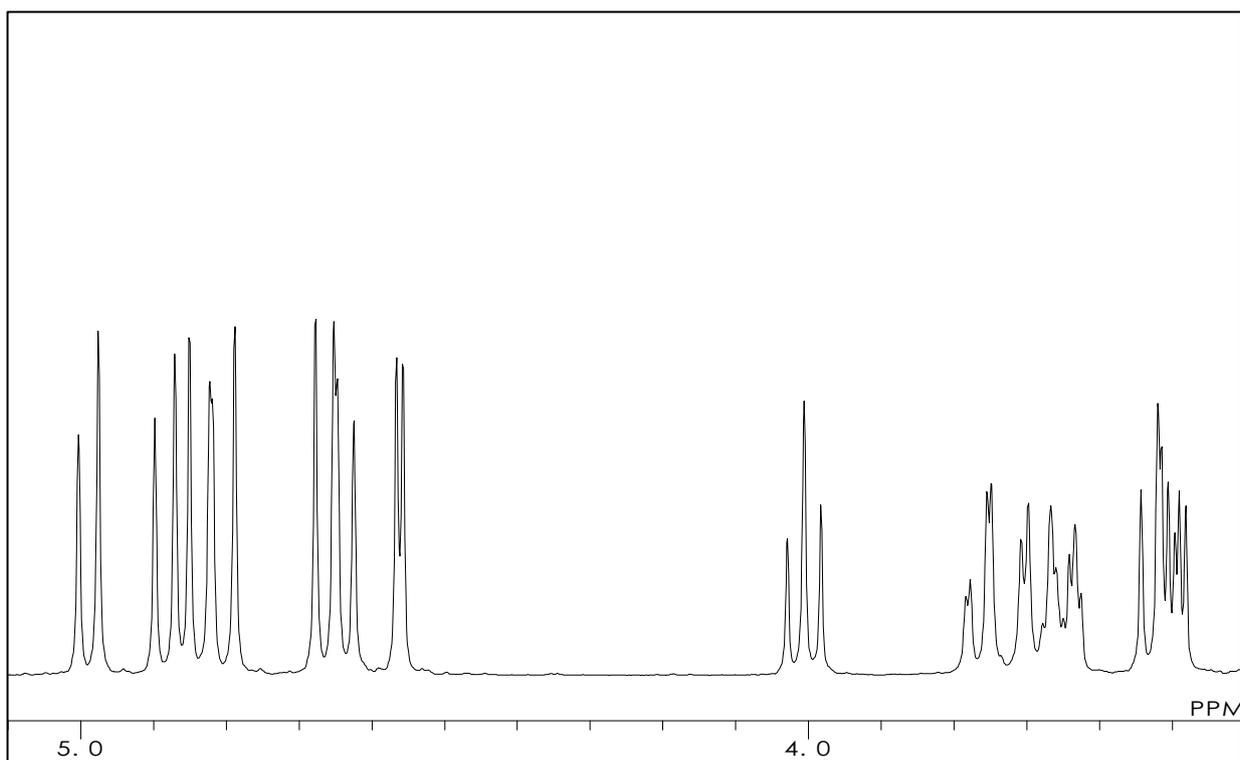
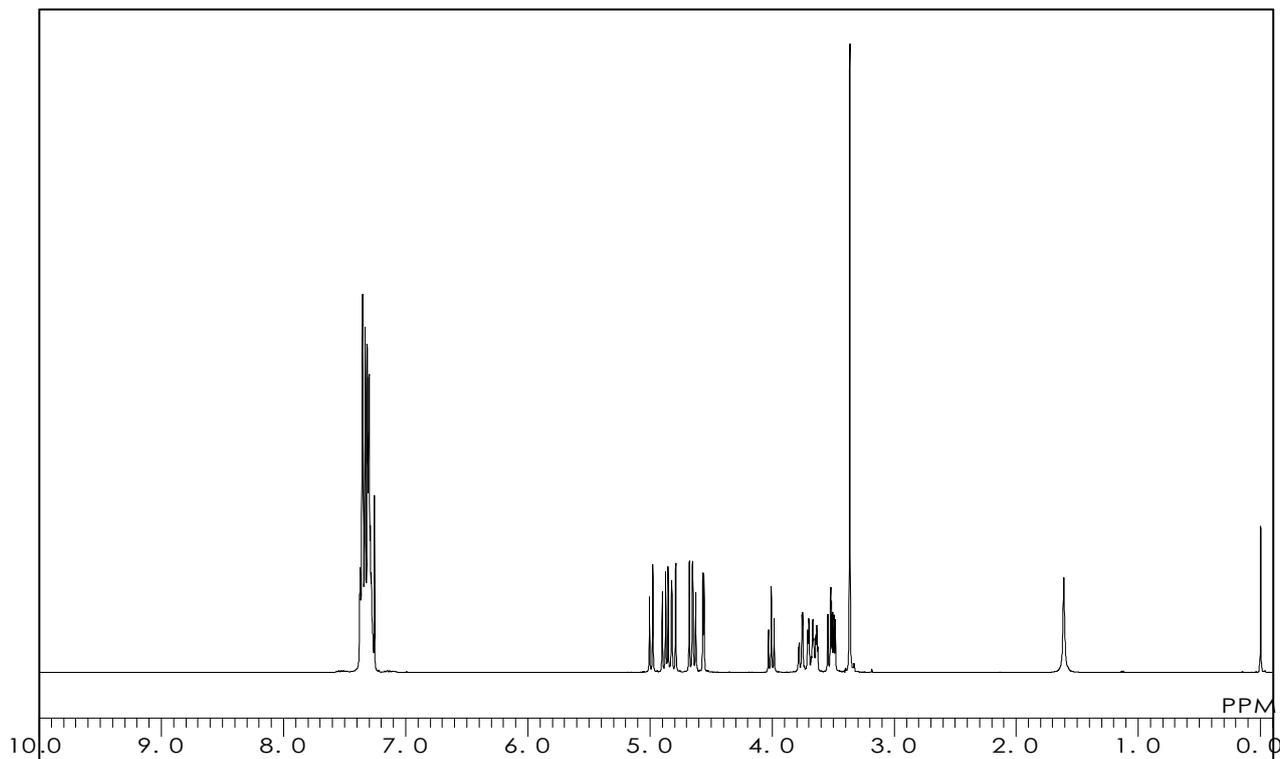
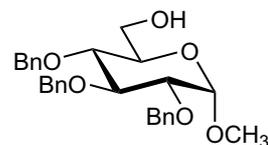
Methyl 2,3,4-Tri-O-benzyl- α -D-glucopyranoside

$C_{28}H_{32}O_6 = 464.56$ [53008-65-4]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.7 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

A2638

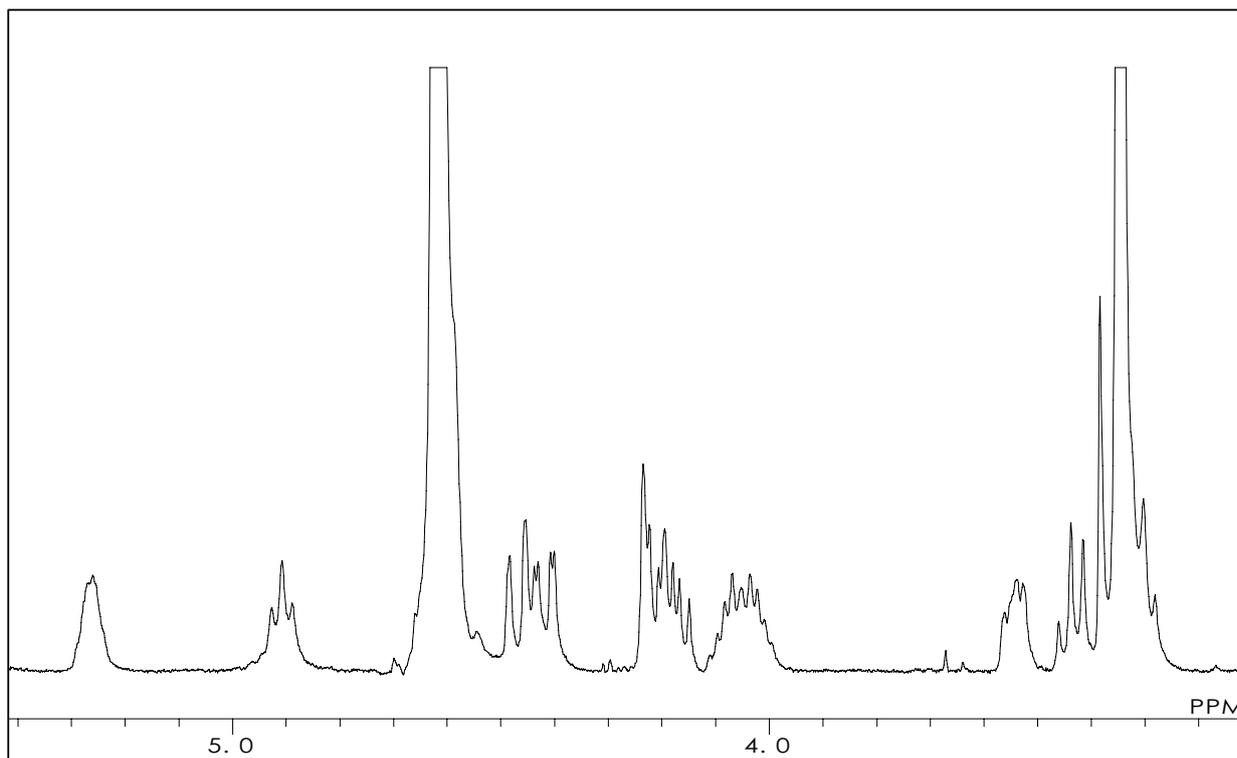
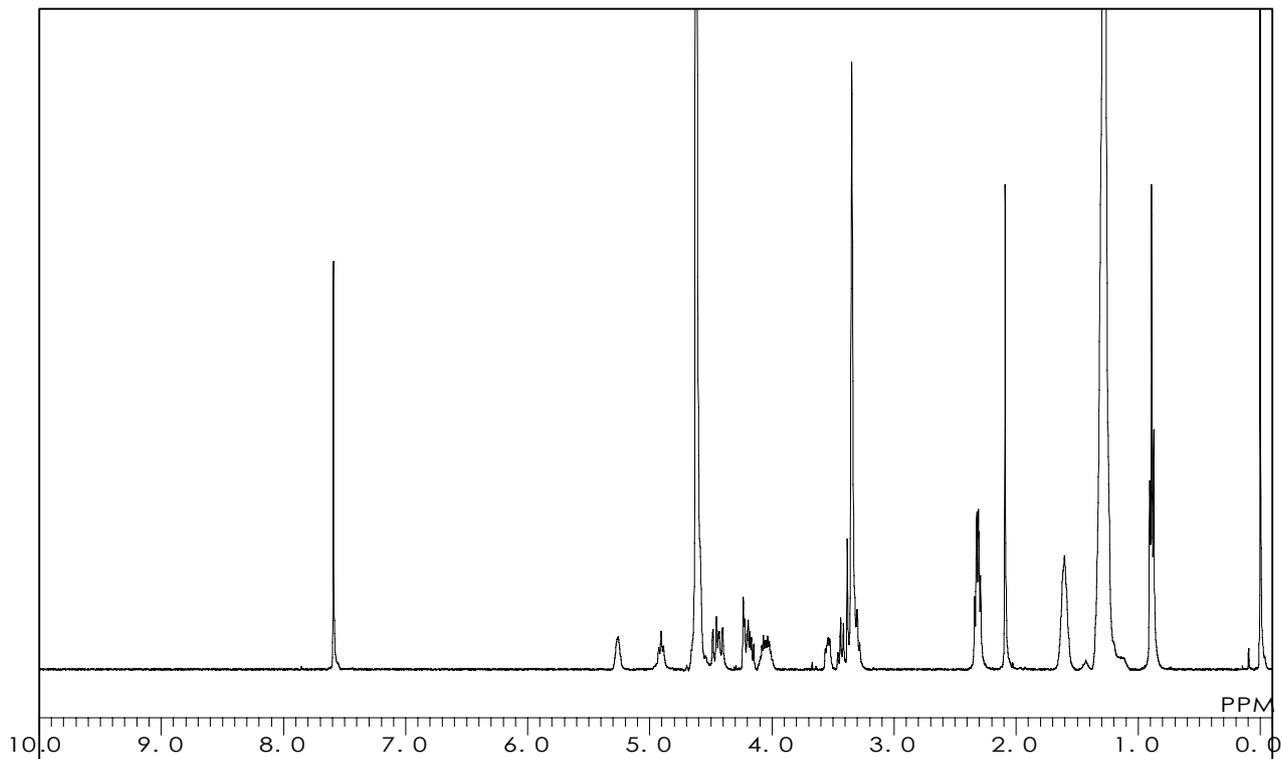
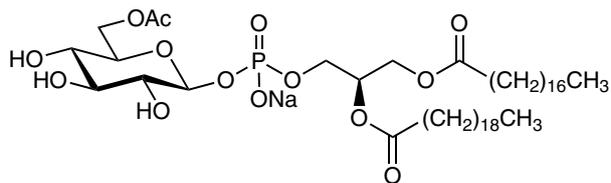
6-OAc PtdGlc(di-acyl Chain)

$C_{49}H_{92}NaO_{14}P = 959.22$ [1065483-61-5]

Solvent : $CDCl_3/CD_3OD = 1/1$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 26.6 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

P1475

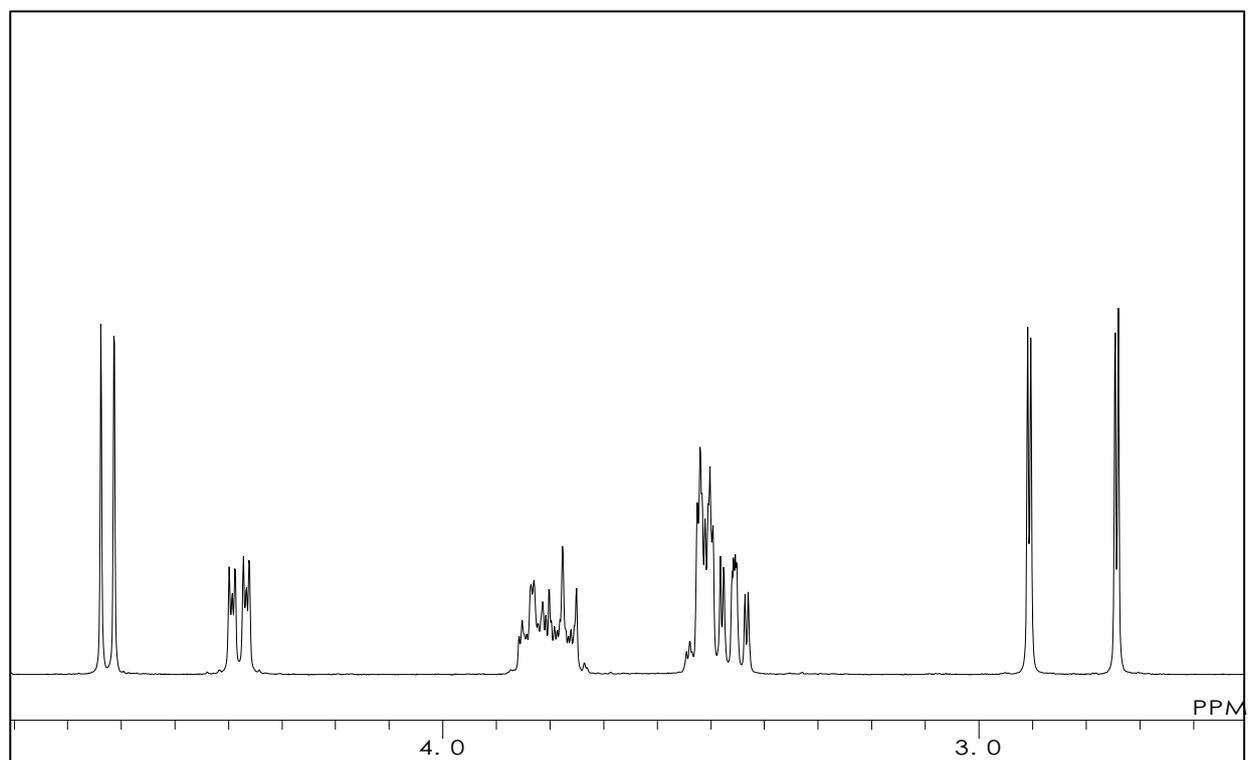
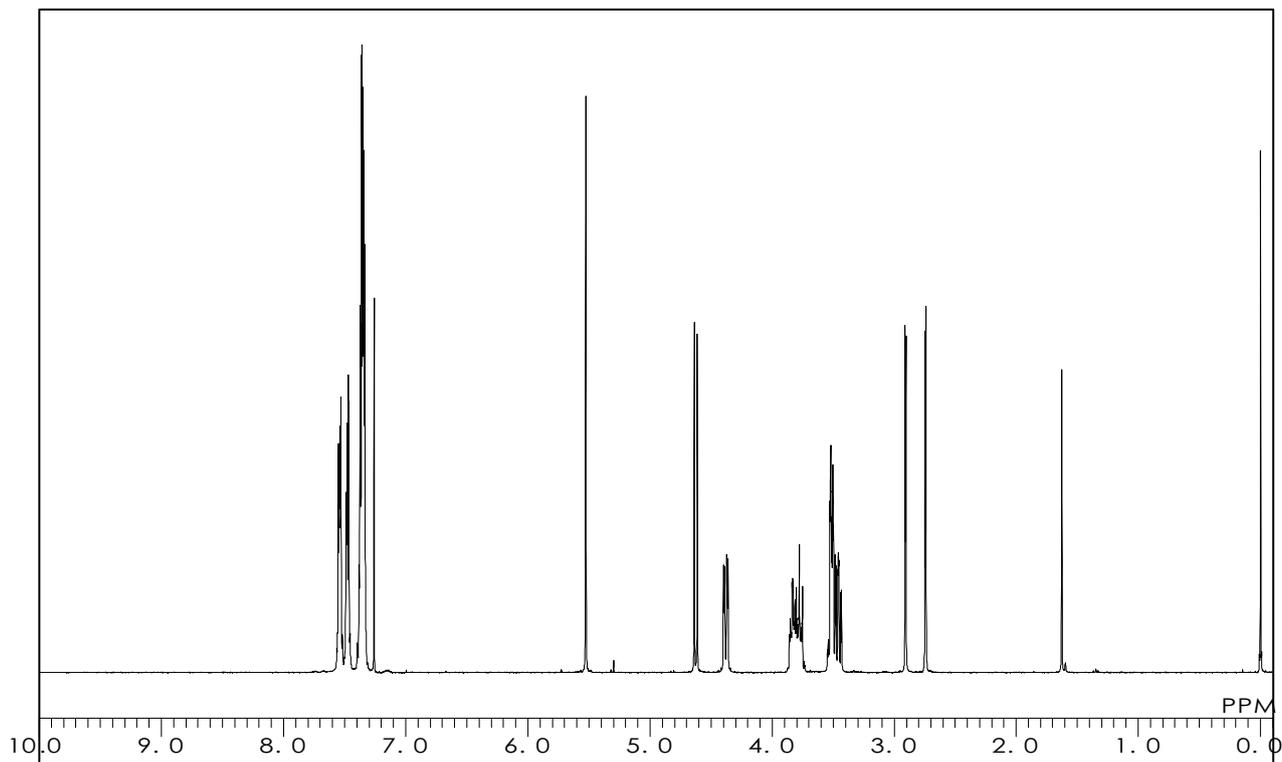
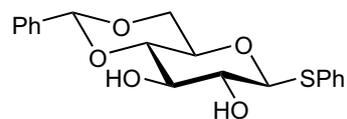
Phenyl 4,6-O-Benzylidene-1-thio-β-D-glucopyranoside

C₁₉H₂₀O₅S = 360.42 [87508-17-6]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.5 °C



P1476

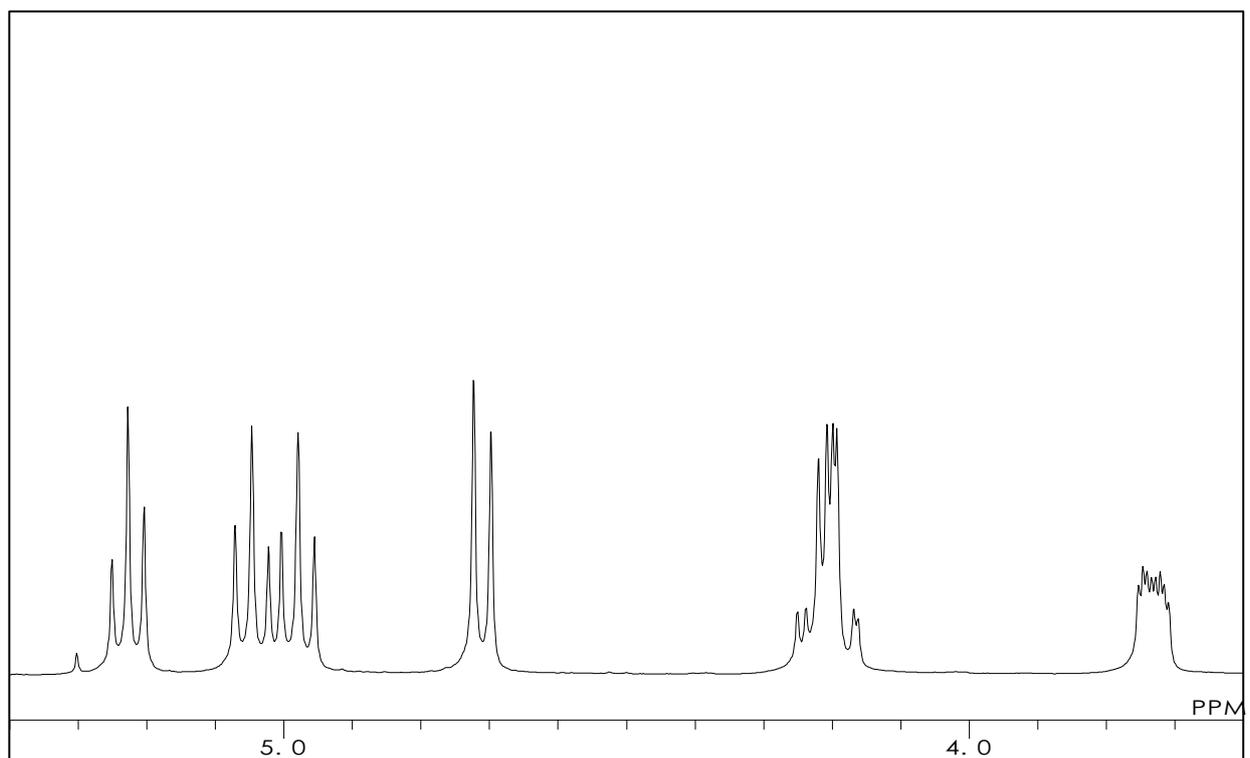
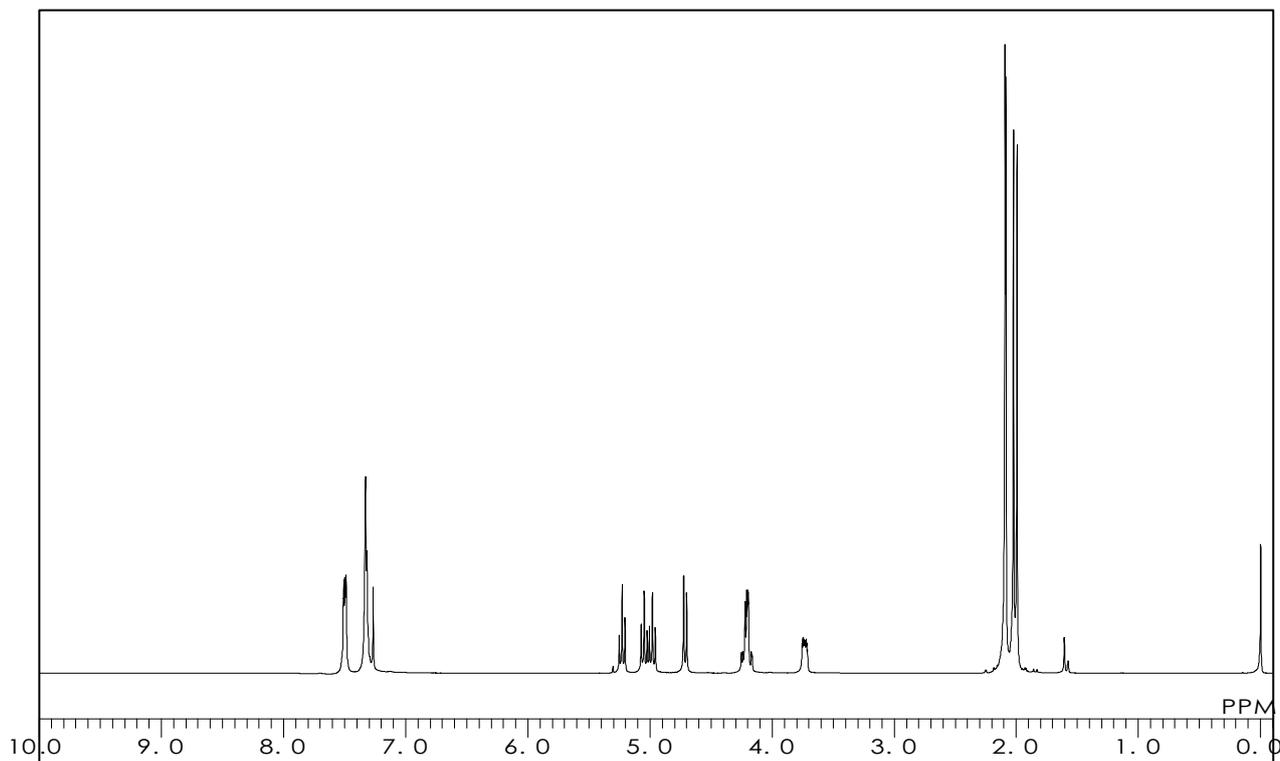
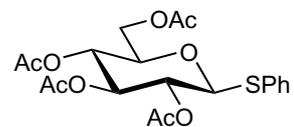
Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio-β-D-glucopyranoside

C₂₀H₂₄O₉S = 440.46 [23661-28-1]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 19.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

P1736

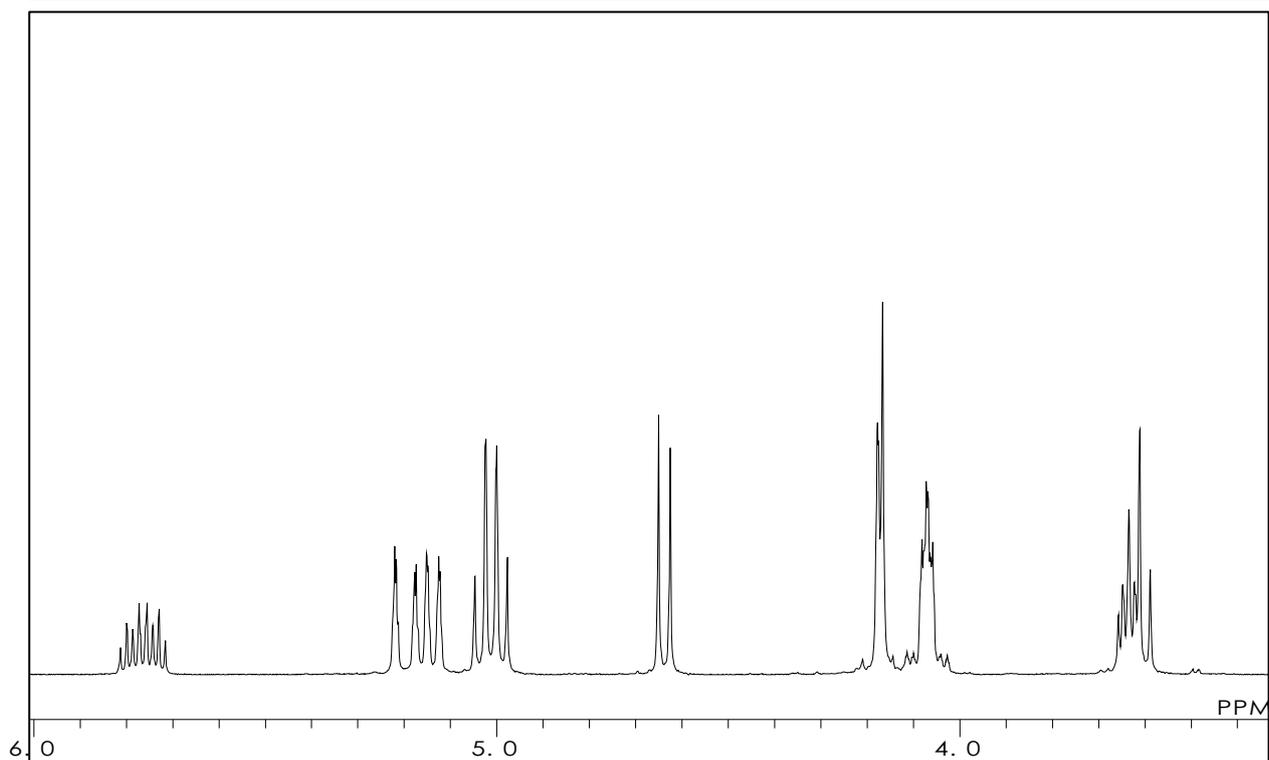
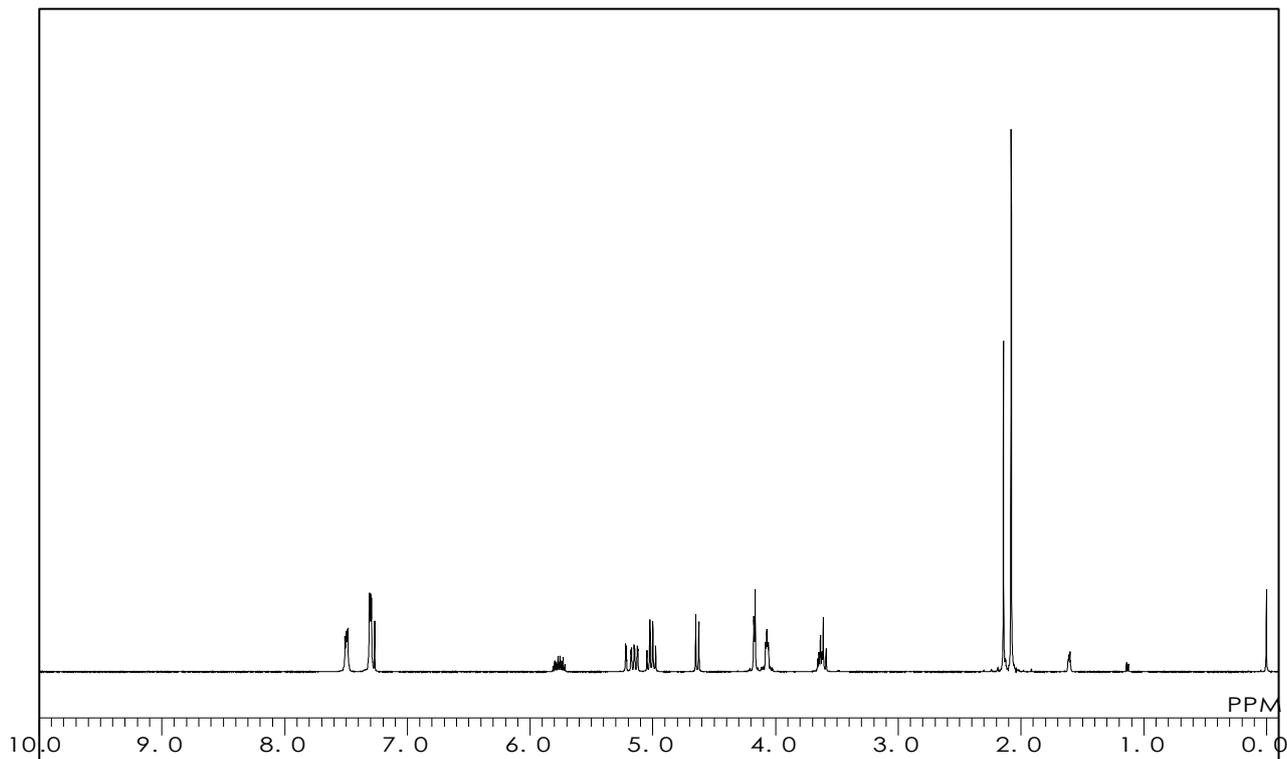
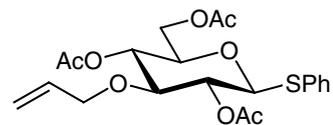
Phenyl 2,4,6-Tri-O-acetyl-3-O-allyl-1-thio-β-D-glucopyranoside

$C_{21}H_{26}O_8S = 438.49$ [197005-22-4]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.5 °C



T2449

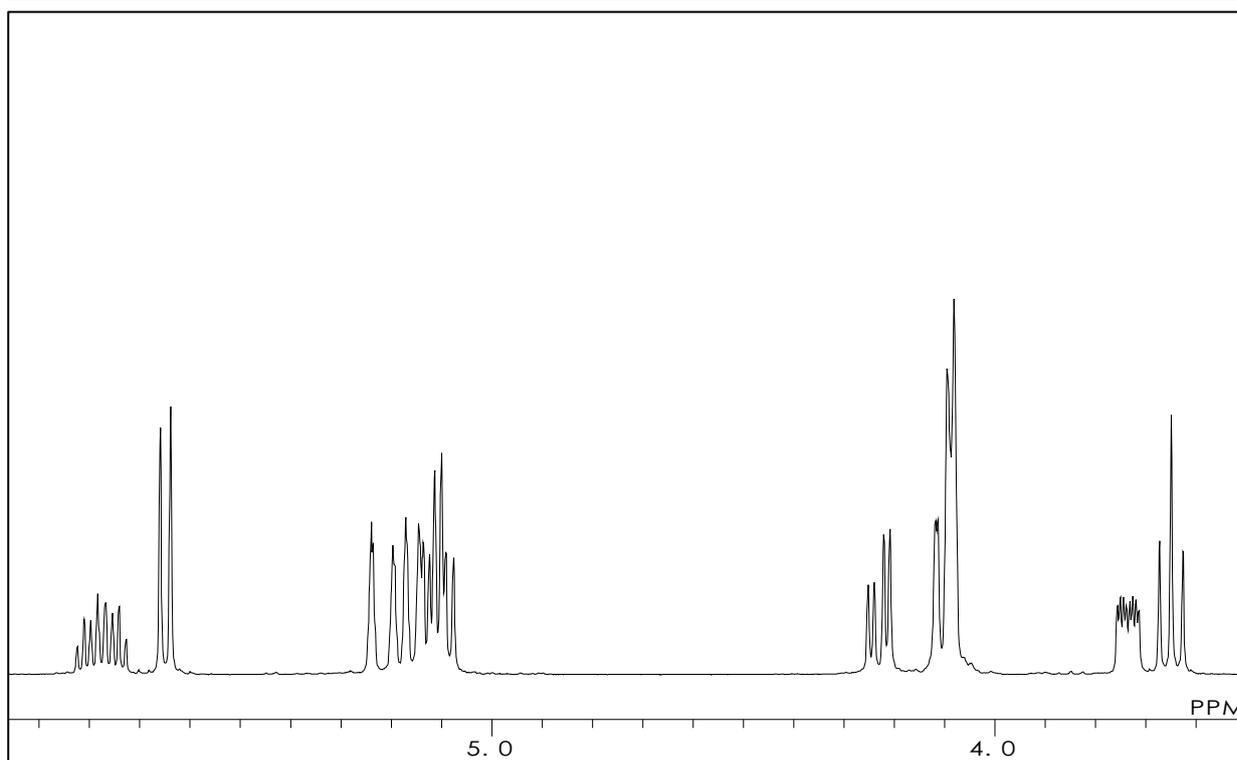
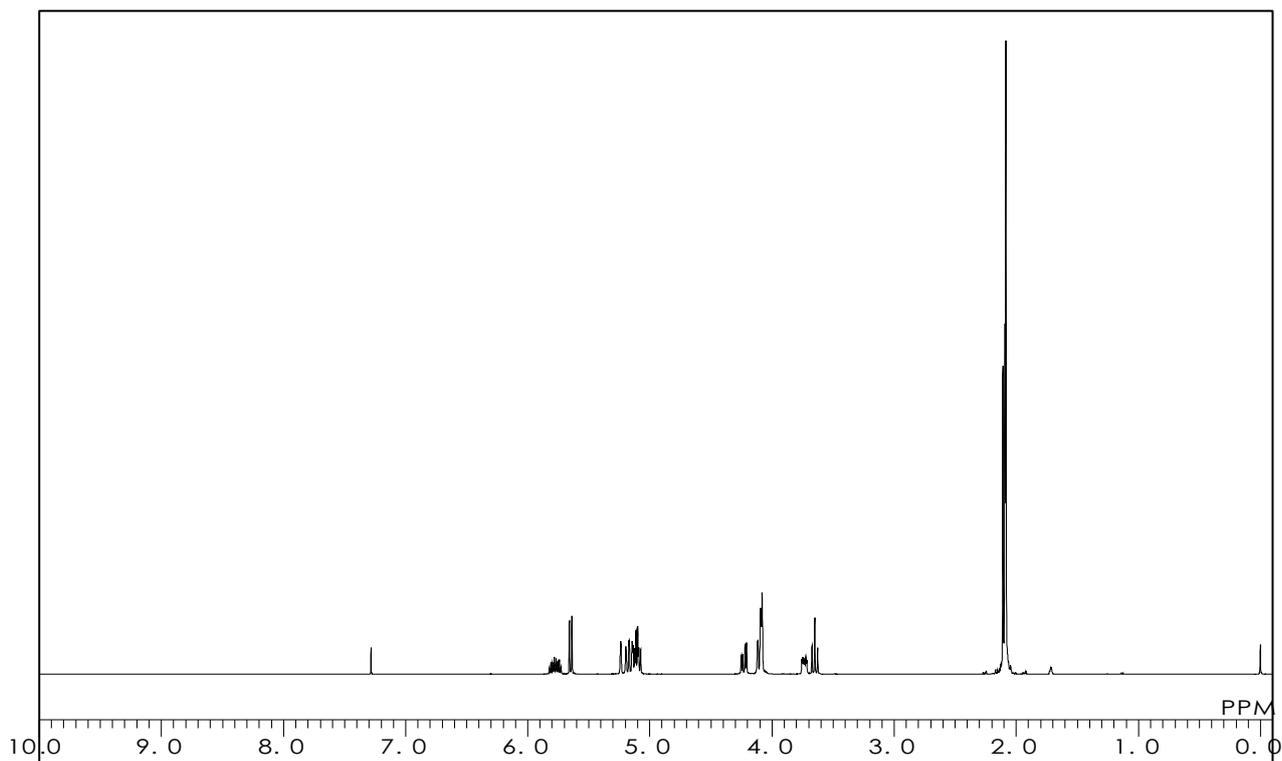
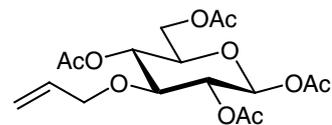
1,2,4,6-Tetra-O-acetyl-3-O-allyl-β-D-glucopyranose

$C_{17}H_{24}O_{10}$ = 388.37 [39698-00-5]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.3 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T1995

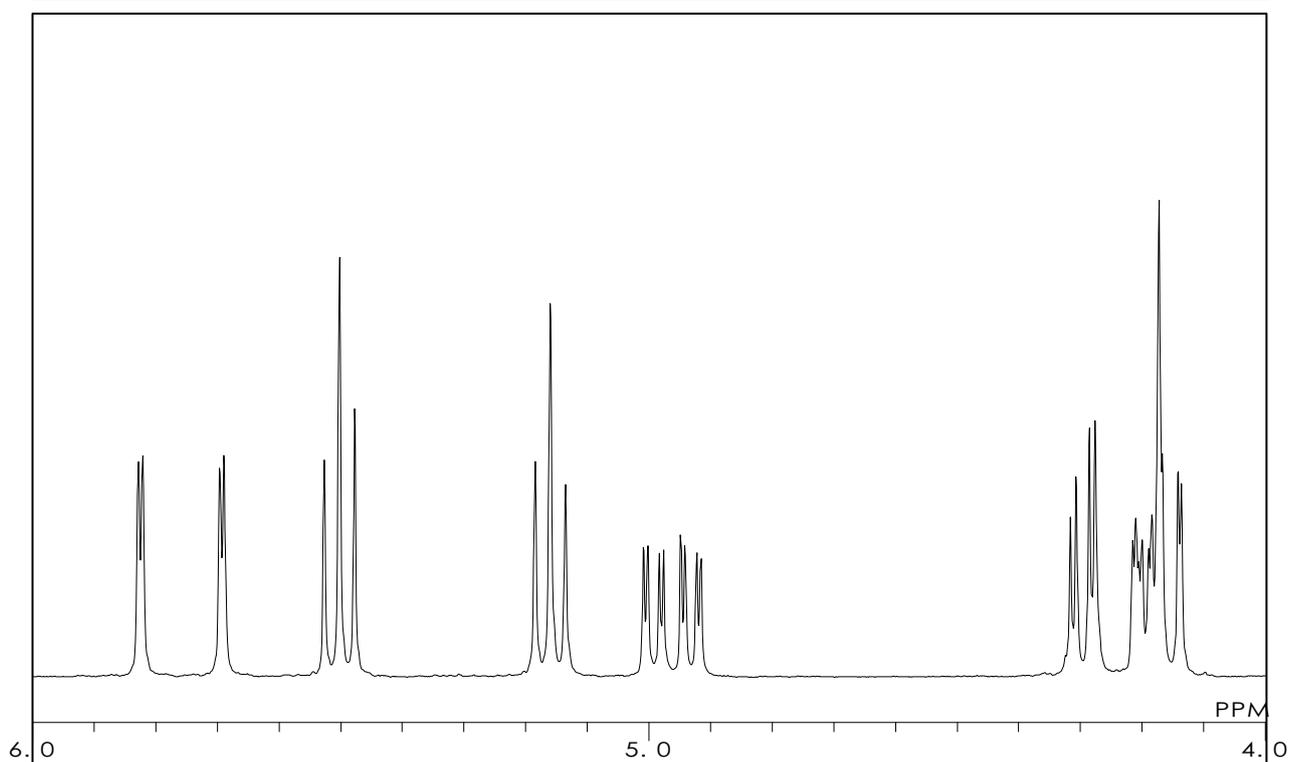
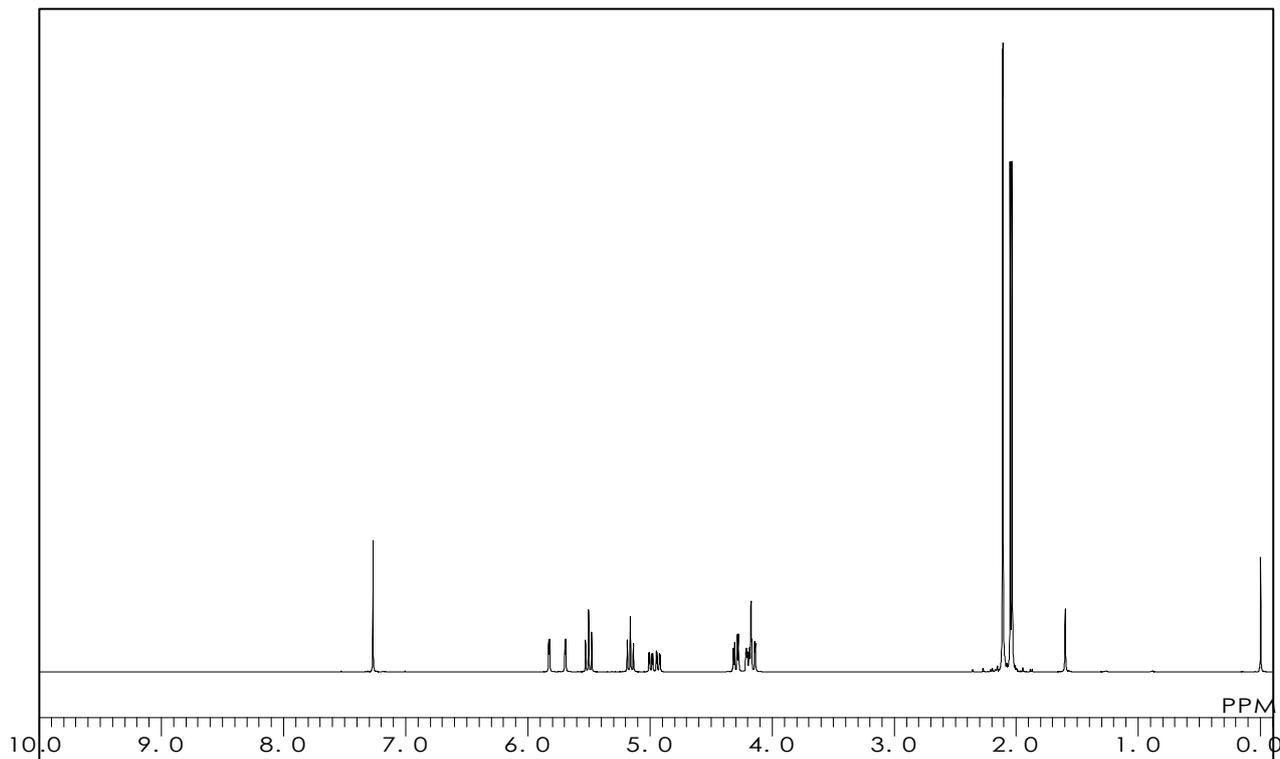
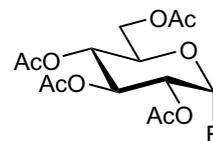
2,3,4,6-Tetra-O-acetyl- α -D-glucopyranosyl Fluoride

$C_{14}H_{19}FO_9 = 350.30$ [3934-29-0]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.8 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

T2491

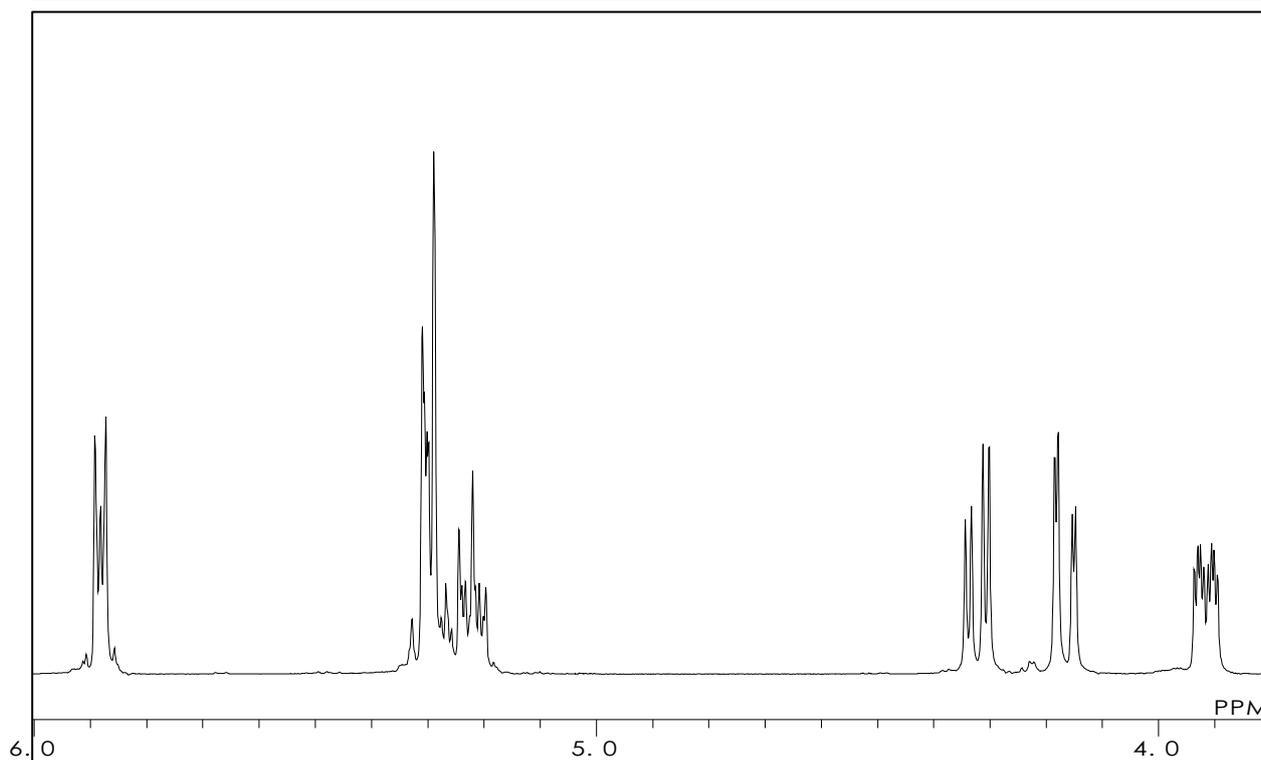
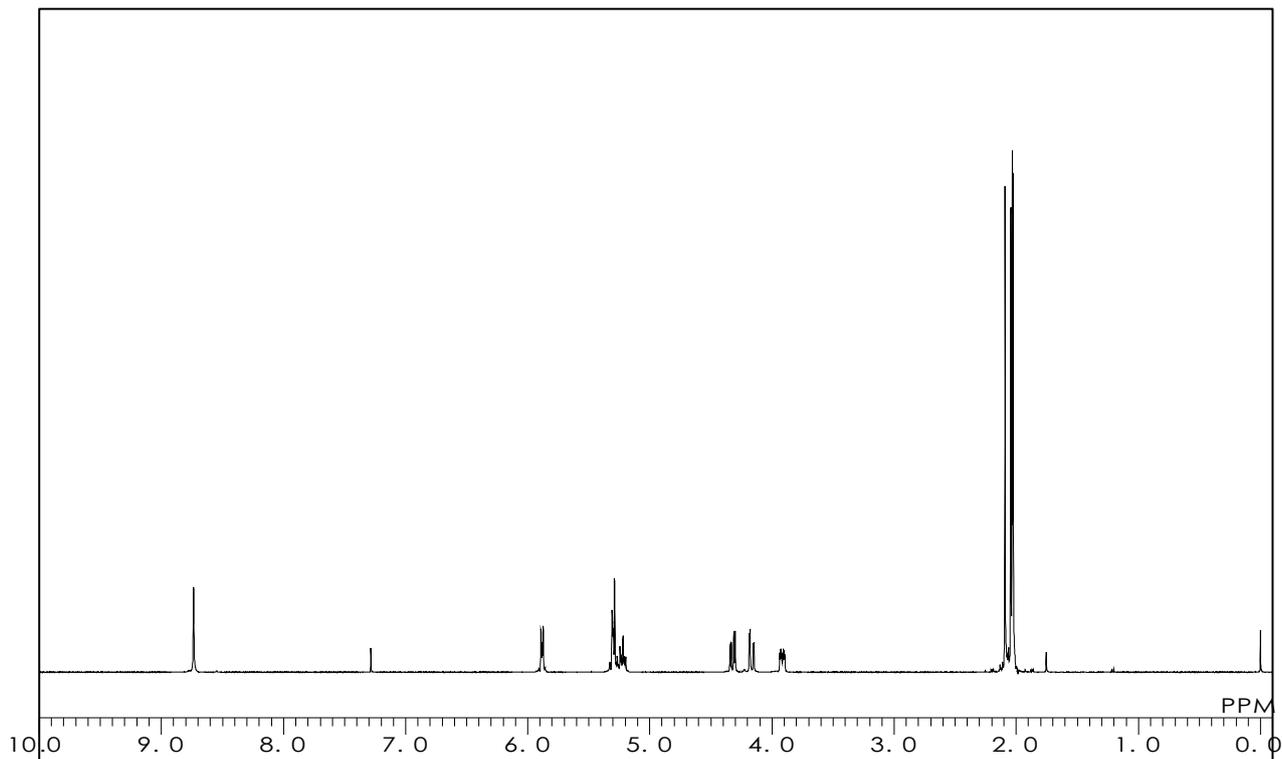
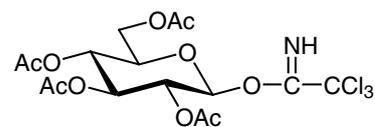
**2,3,4,6-Tetra-O-acetyl-β-D-glucopyranosyl
2,2,2-Trichloroacetimidate**

C₁₆H₂₀Cl₃NO₁₀ = 492.68 [92052-29-4]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

P2079

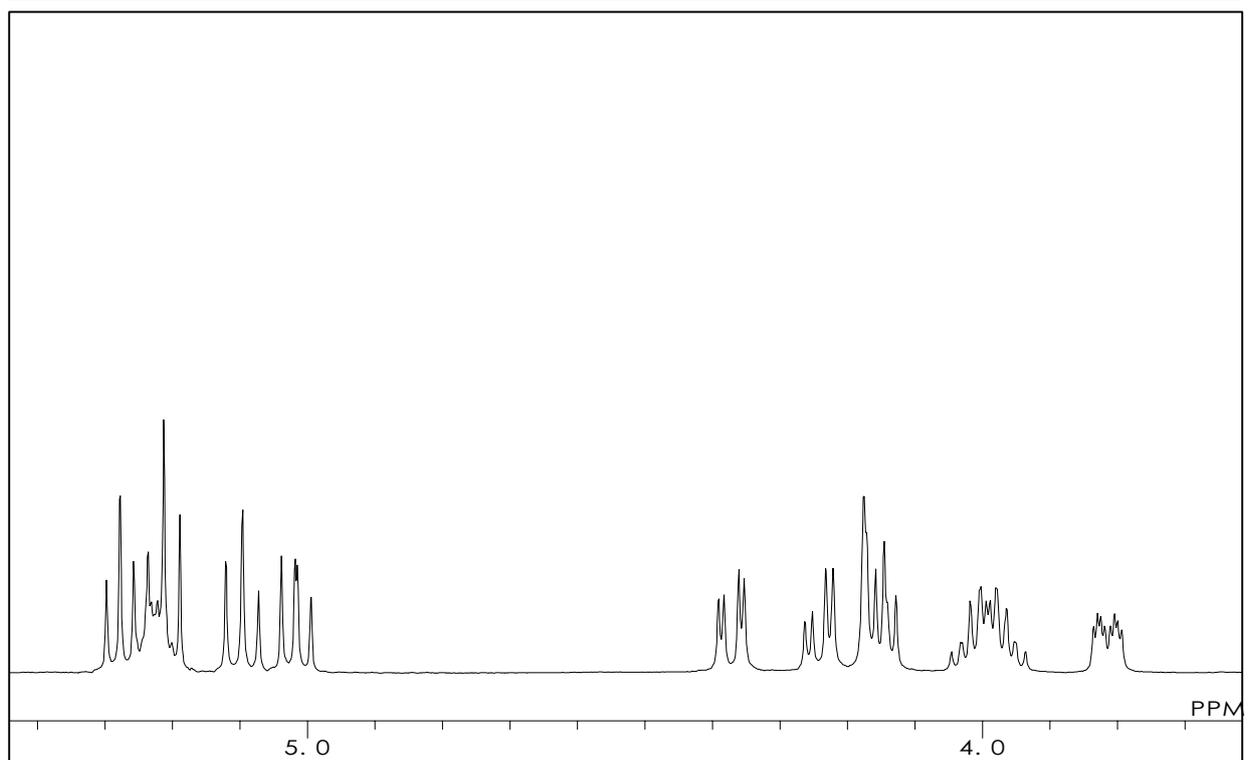
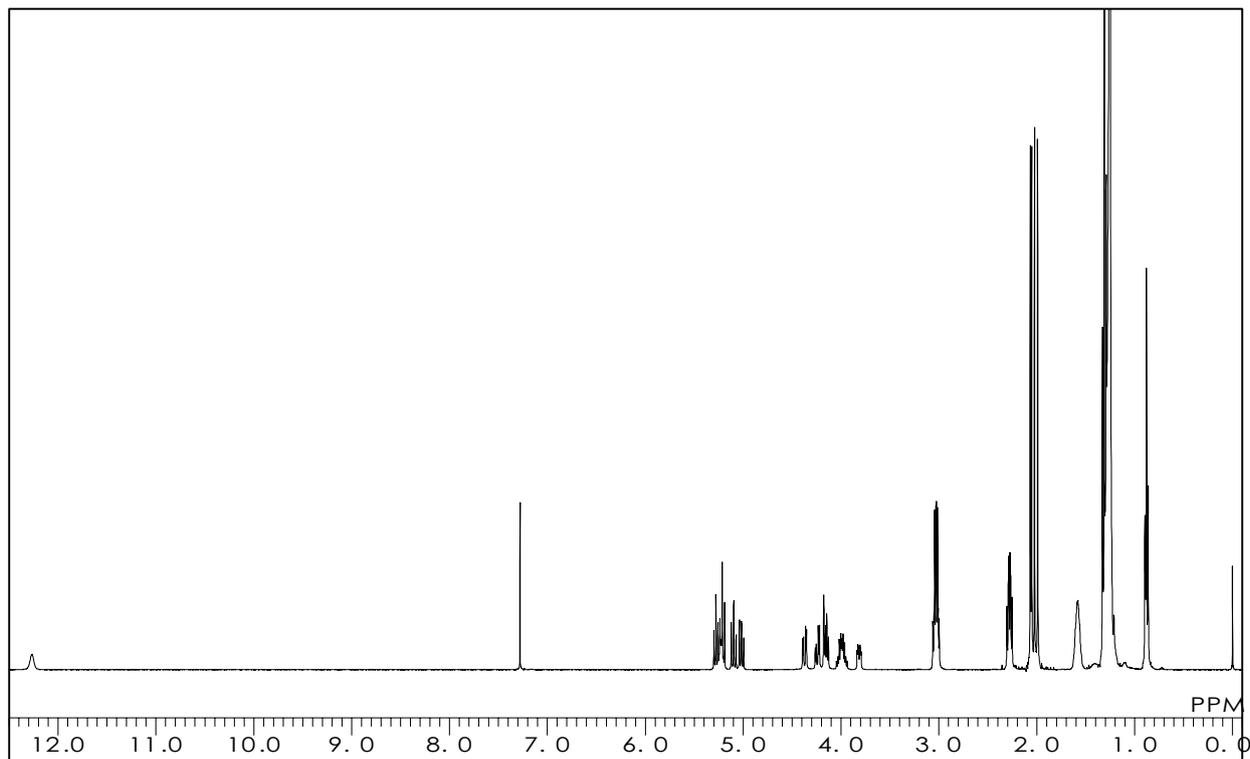
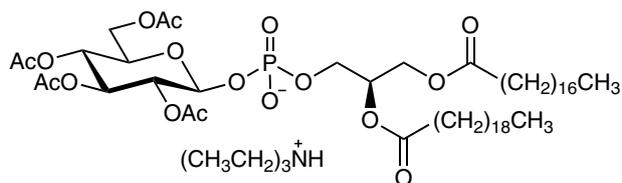
2,3,4,6-Tetra-O-acetyl-PtdGlc(di-acyl Chain)

$C_{61}H_{114}NO_{17}P = 1164.55$ [1037195-49-5]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 25.2 °C



P2080

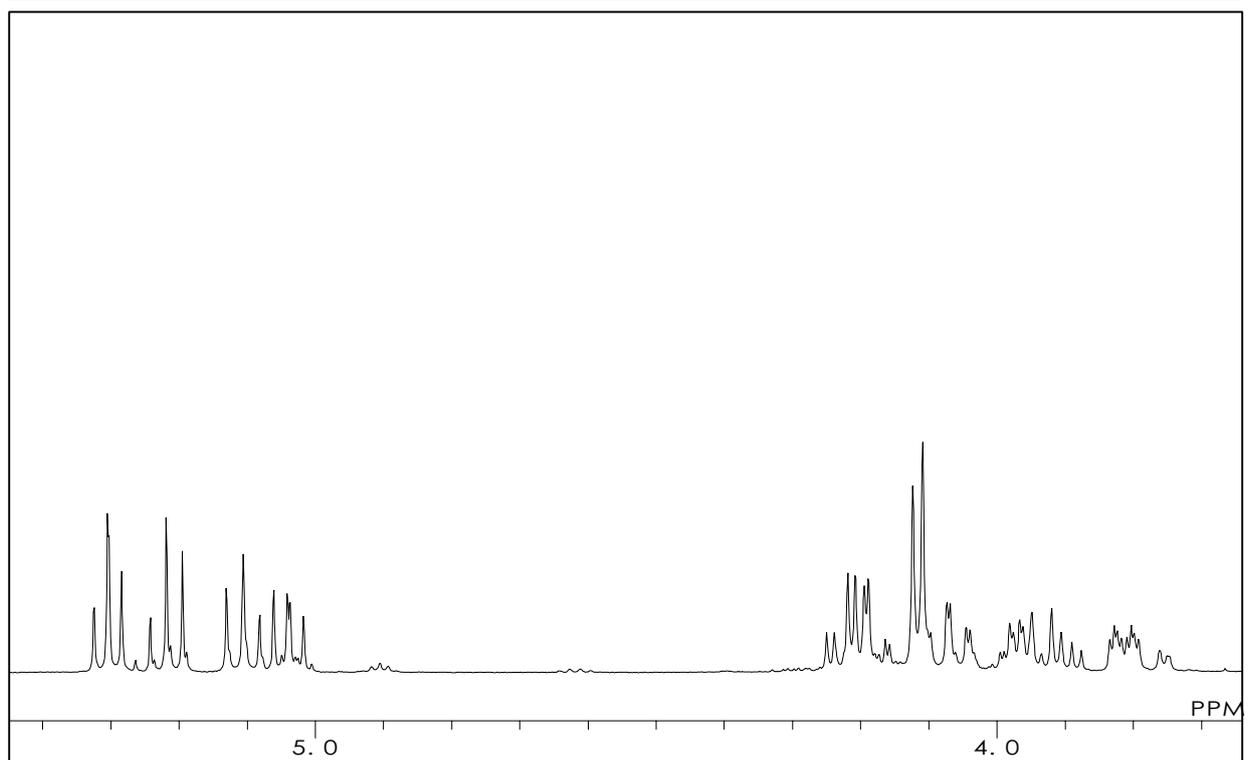
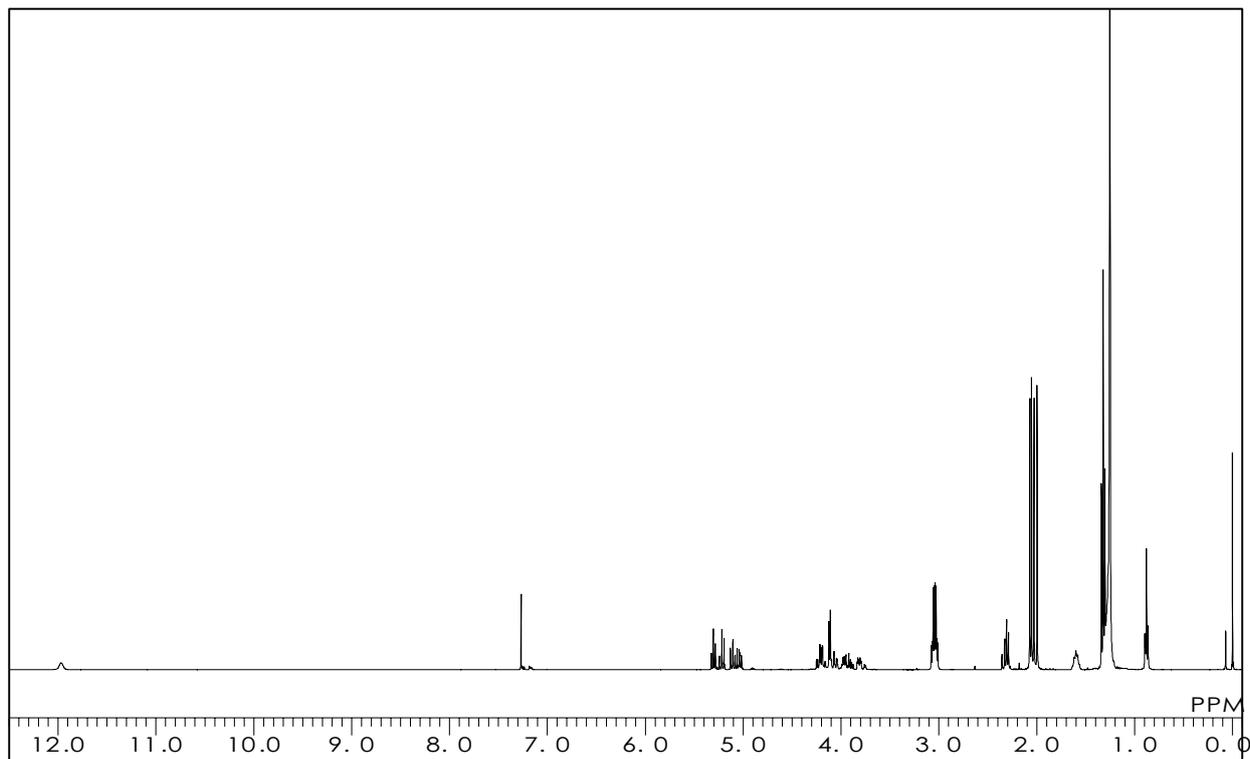
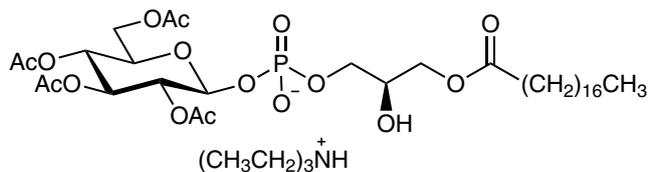
2,3,4,6-Tetra-O-acetyl-PtdGlc(mono-acyl Chain)

$C_{41}H_{76}NO_{16}P = 870.02$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 25.5 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T1991

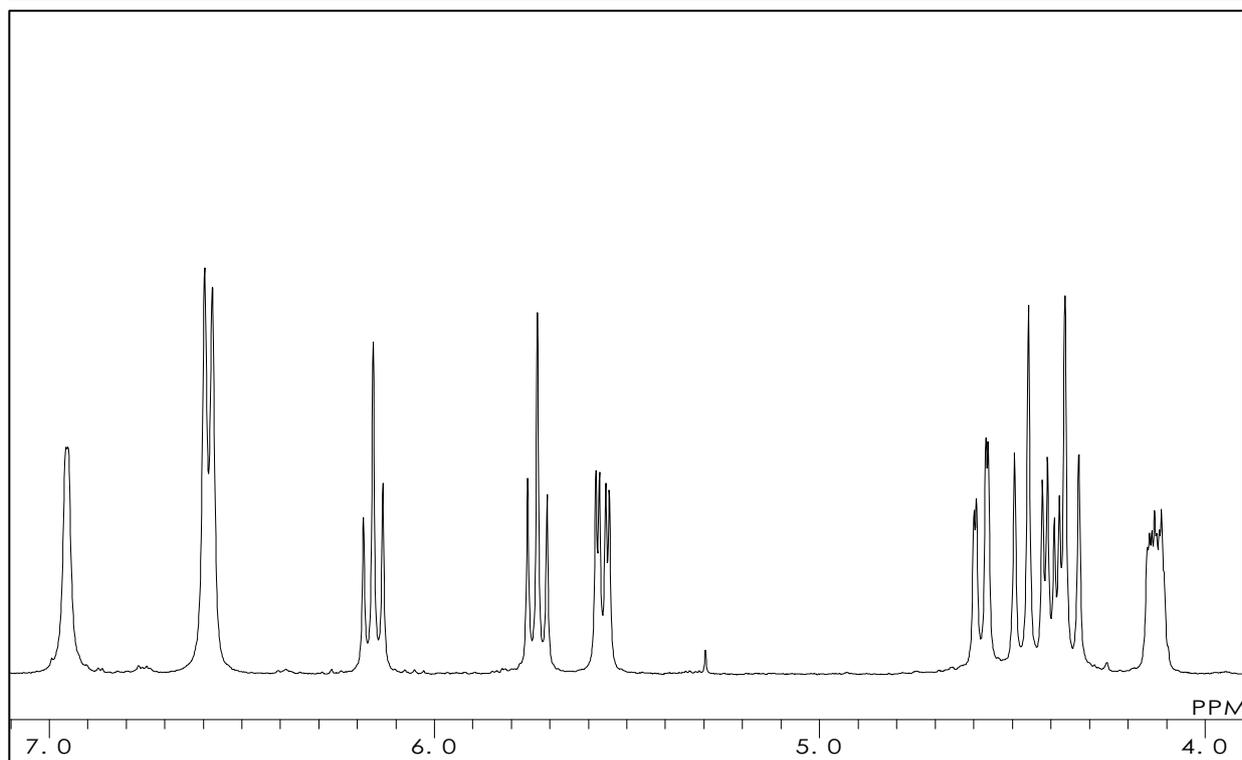
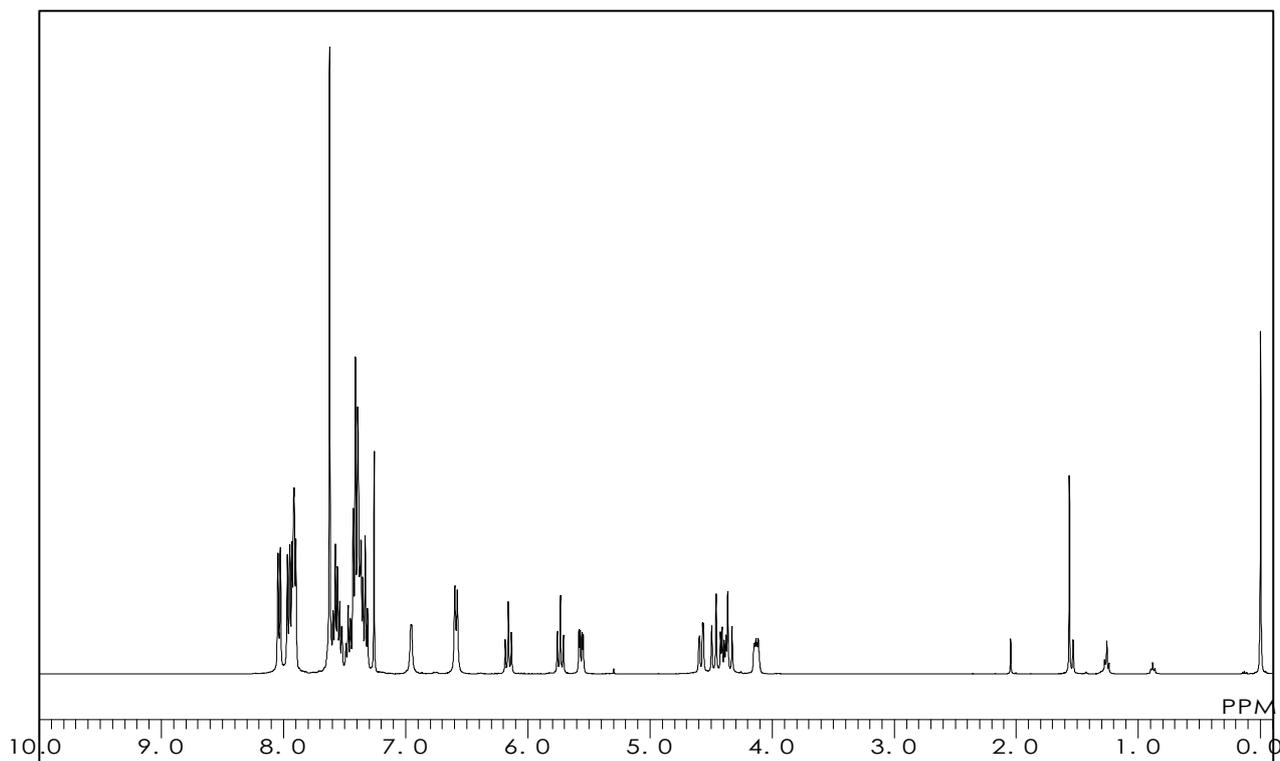
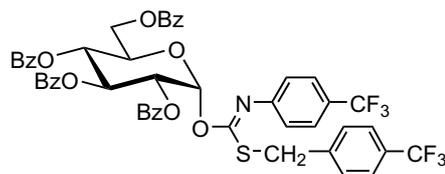
2,3,4,6-Tetra-O-benzoyl- α -D-glucopyranosyl *p*-Trifluoromethylbenzylthio-*N*-(*p*-trifluoromethylphenyl)formimidate

C₅₀H₃₇F₆NO₁₀S = 957.89 [428816-48-2]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.4 °C



T1922

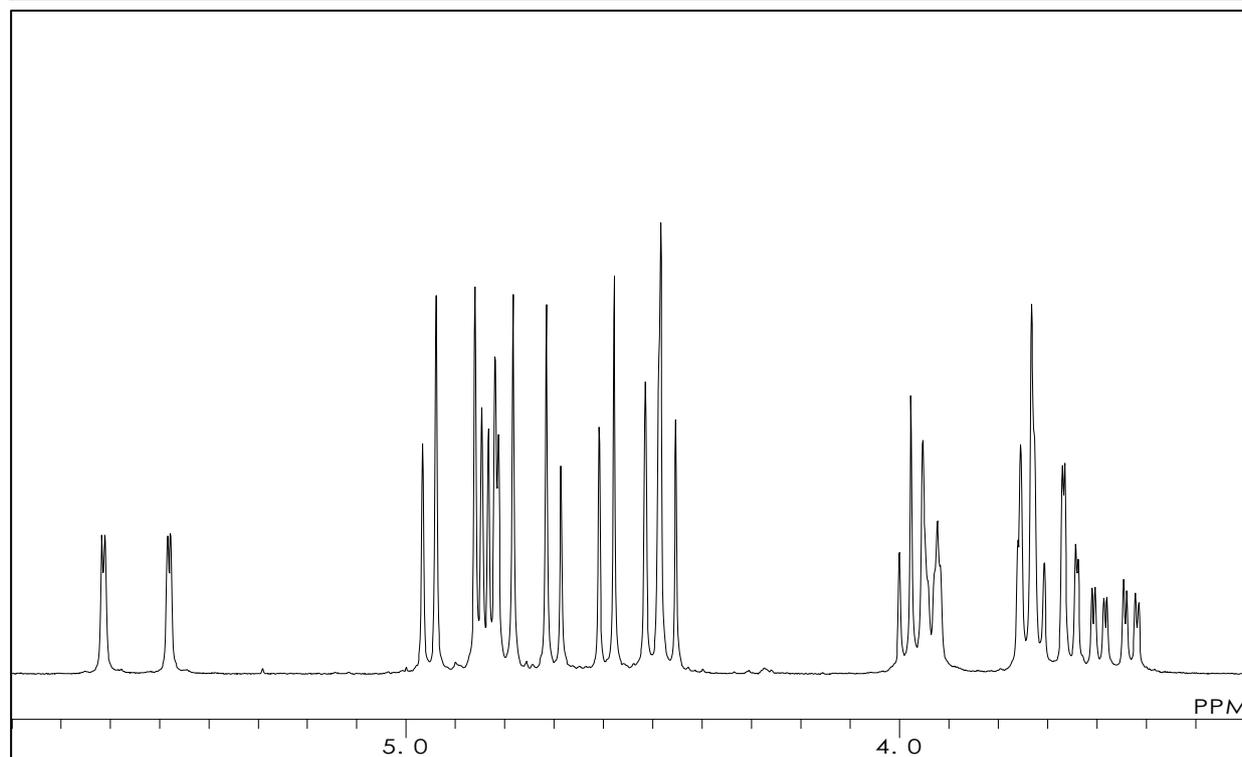
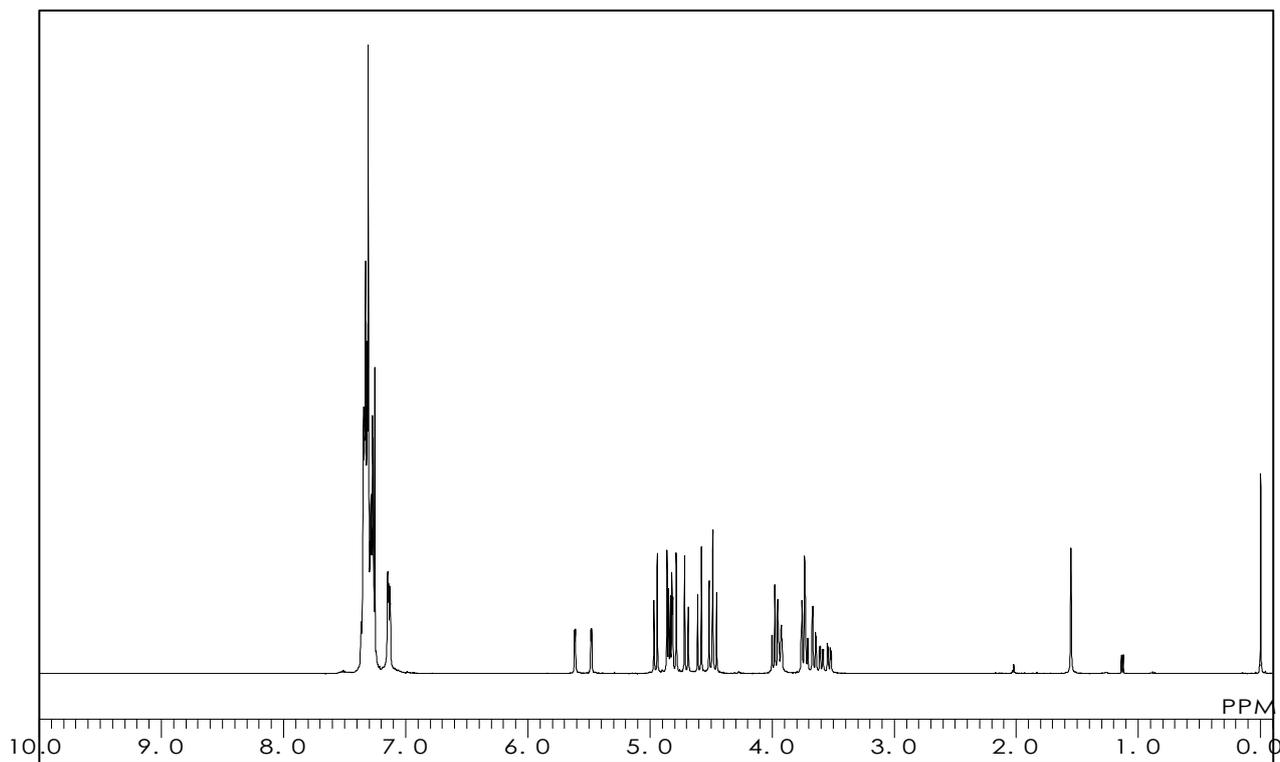
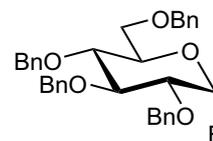
2,3,4,6-Tetra-O-benzyl- α -D-glucopyranosyl Fluoride

$C_{34}H_{35}FO_5 = 542.65$ [89025-46-7]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.6 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T1923

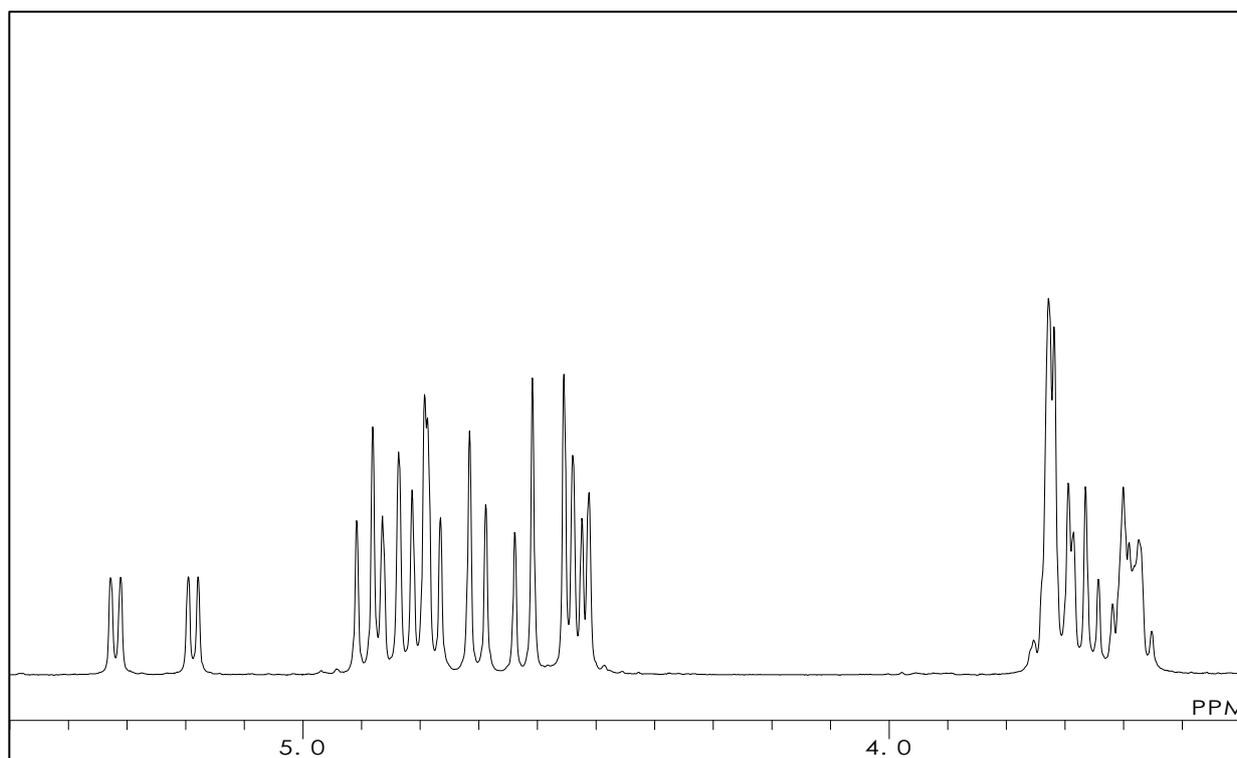
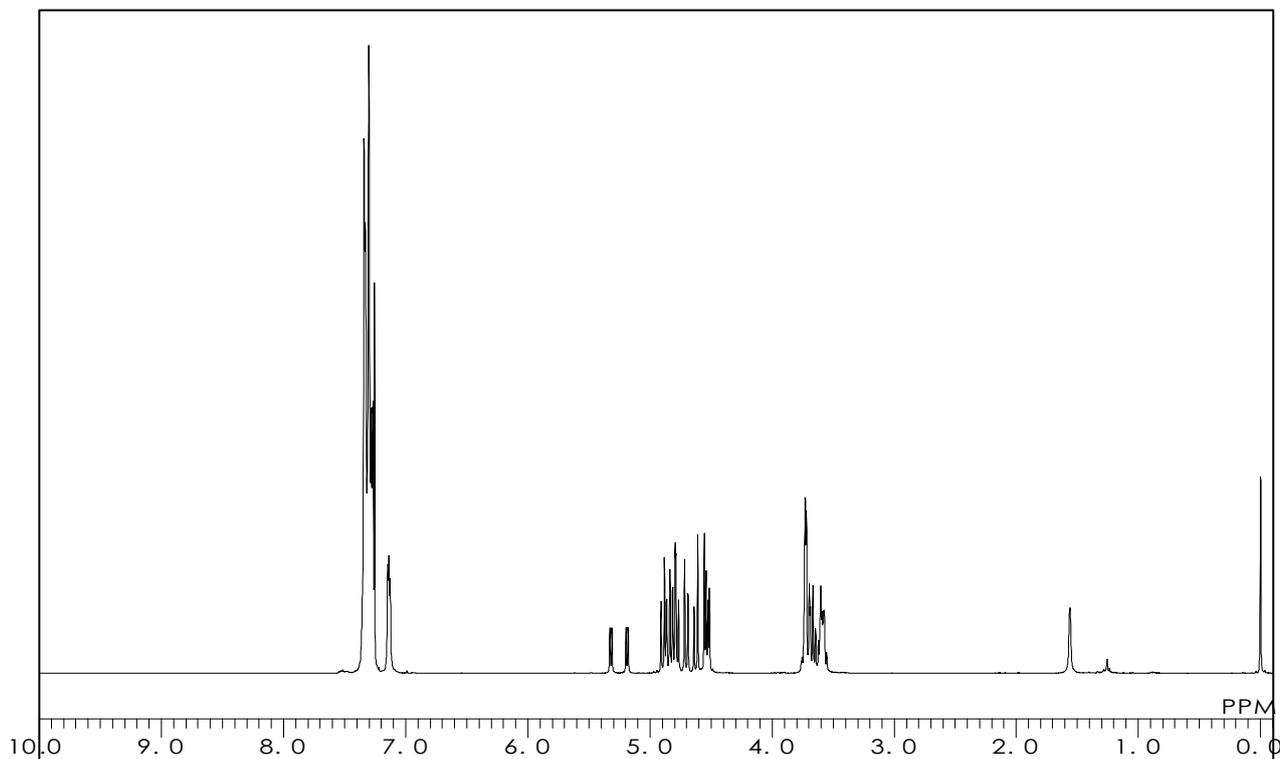
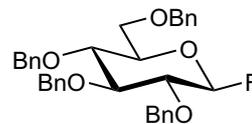
2,3,4,6-Tetra-O-benzyl-β-D-glucopyranosyl Fluoride

$C_{34}H_{35}FO_5 = 542.65$ [78153-79-4]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.8 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

T2197

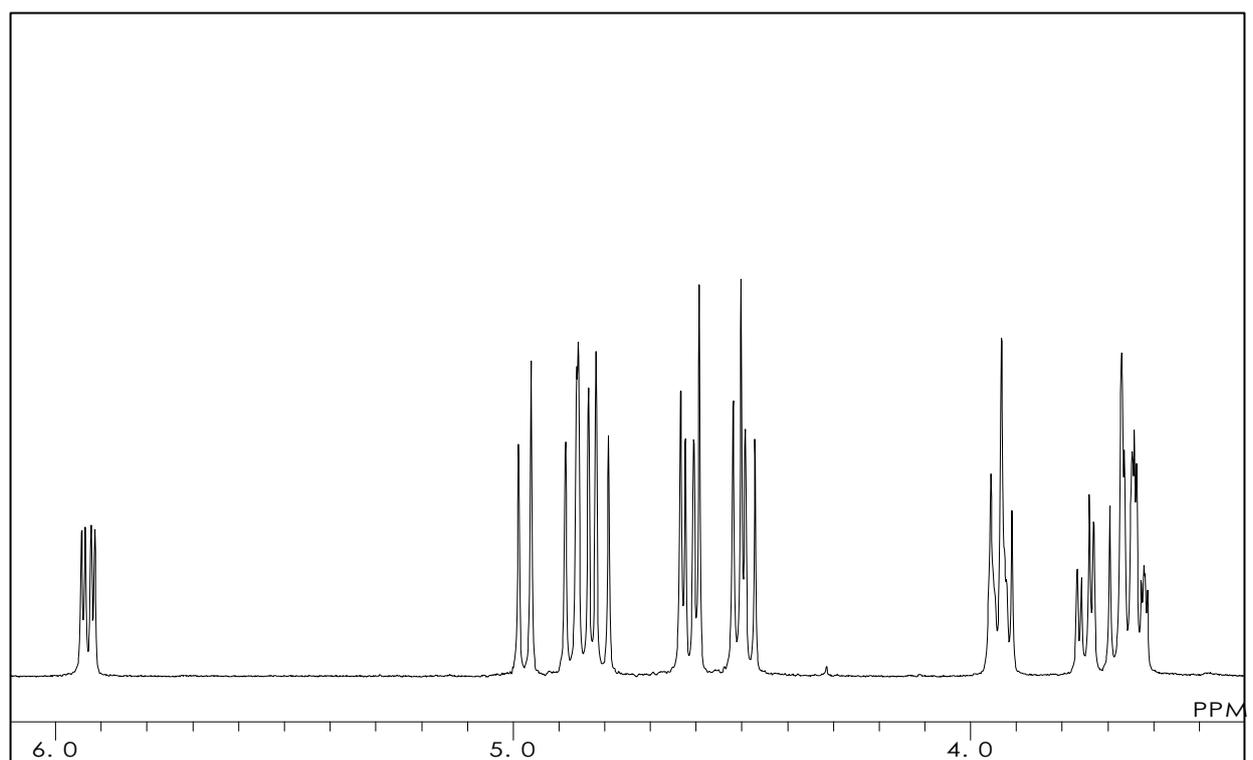
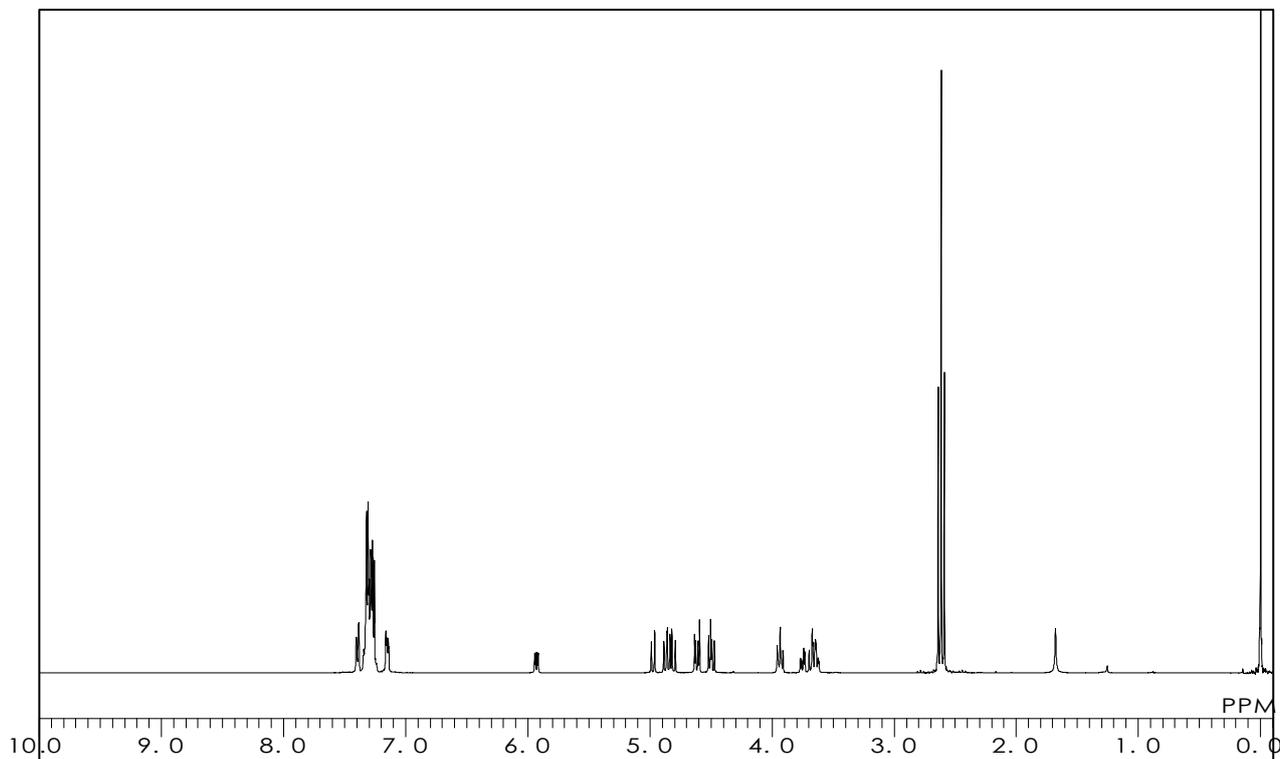
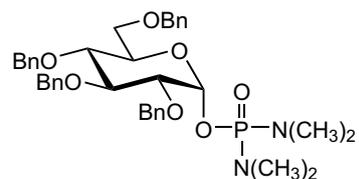
2,3,4,6-Tetra-O-benzyl- α -D-glucopyranosyl *N,N,N',N'*-Tetramethylphosphorodiamidate (ca. 20% in Benzene)

$C_{38}H_{47}N_2O_7P = 674.77$ [143520-19-8]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 25.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T1999

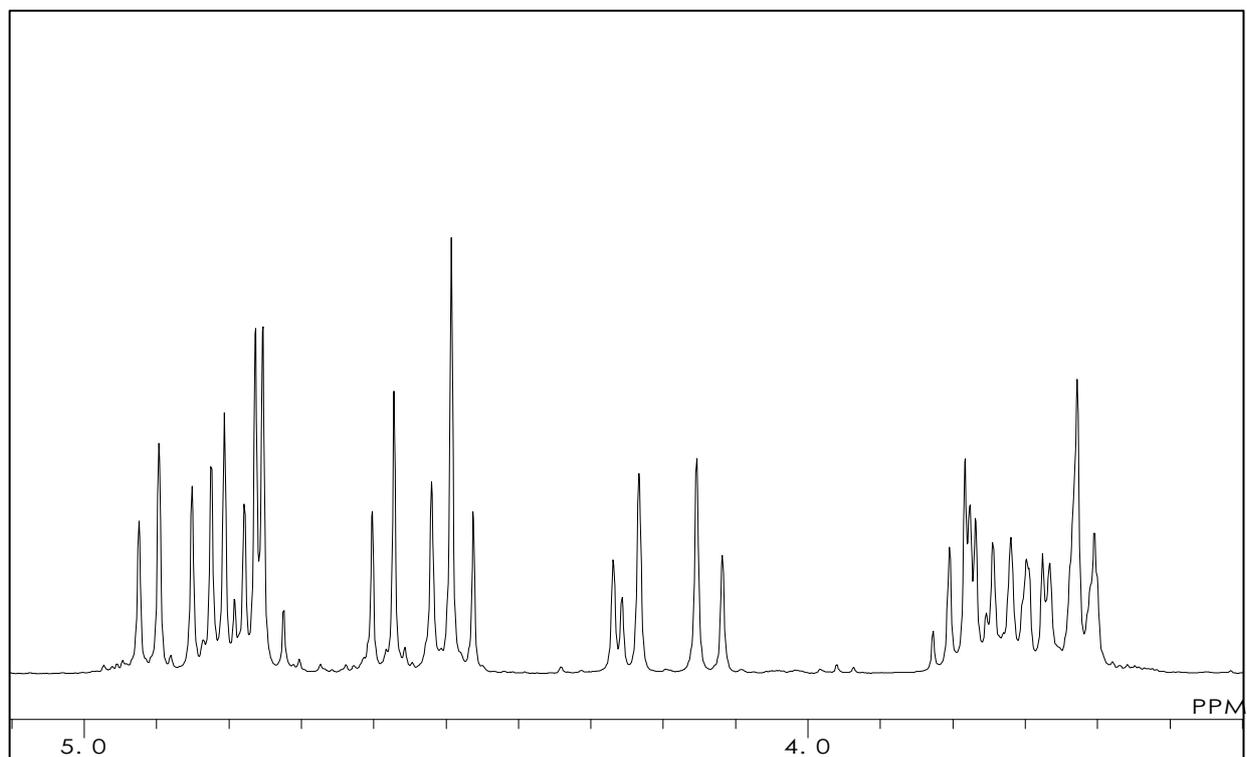
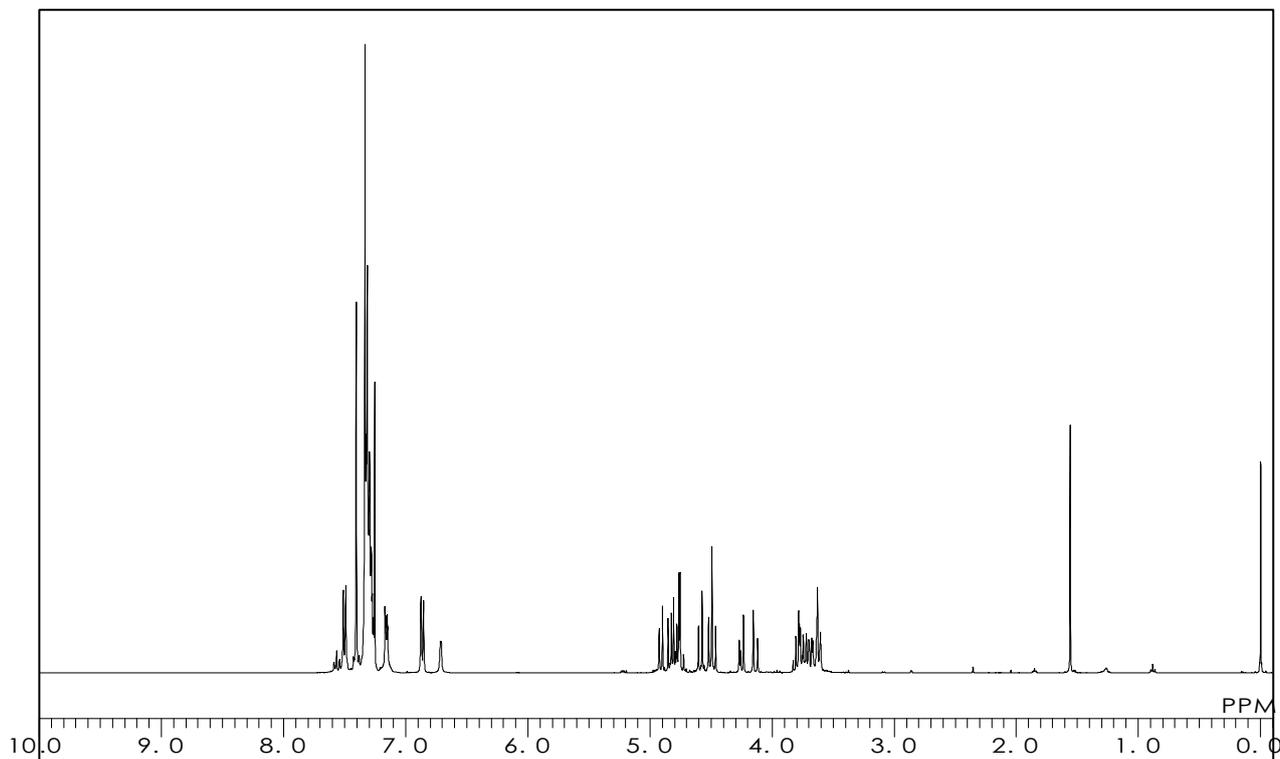
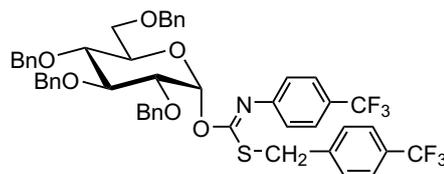
2,3,4,6-Tetra-O-benzyl- α -D-glucopyranosyl *p*-Trifluoromethylbenzylthio-*N*-(*p*-trifluoromethylphenyl)formimidate

C₅₀H₄₅F₆NO₆S = 901.96 [468095-63-8]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.0 °C



A1812

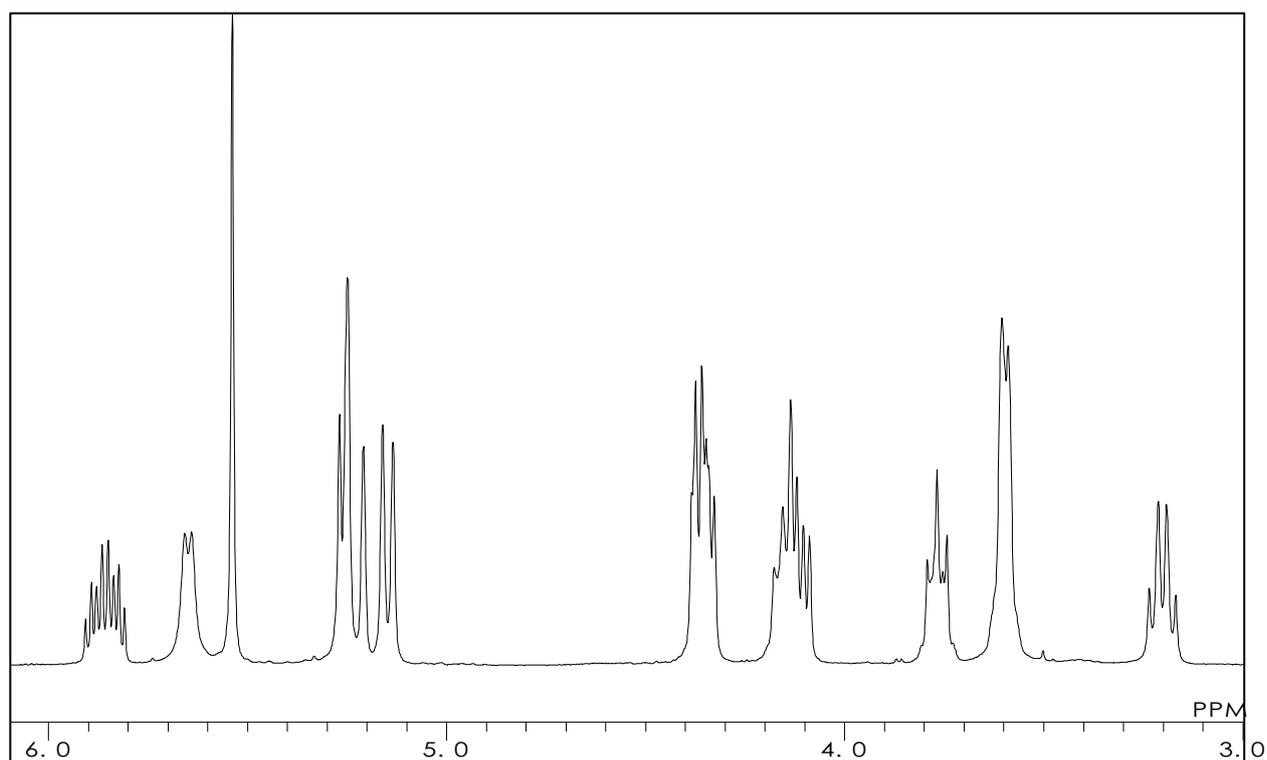
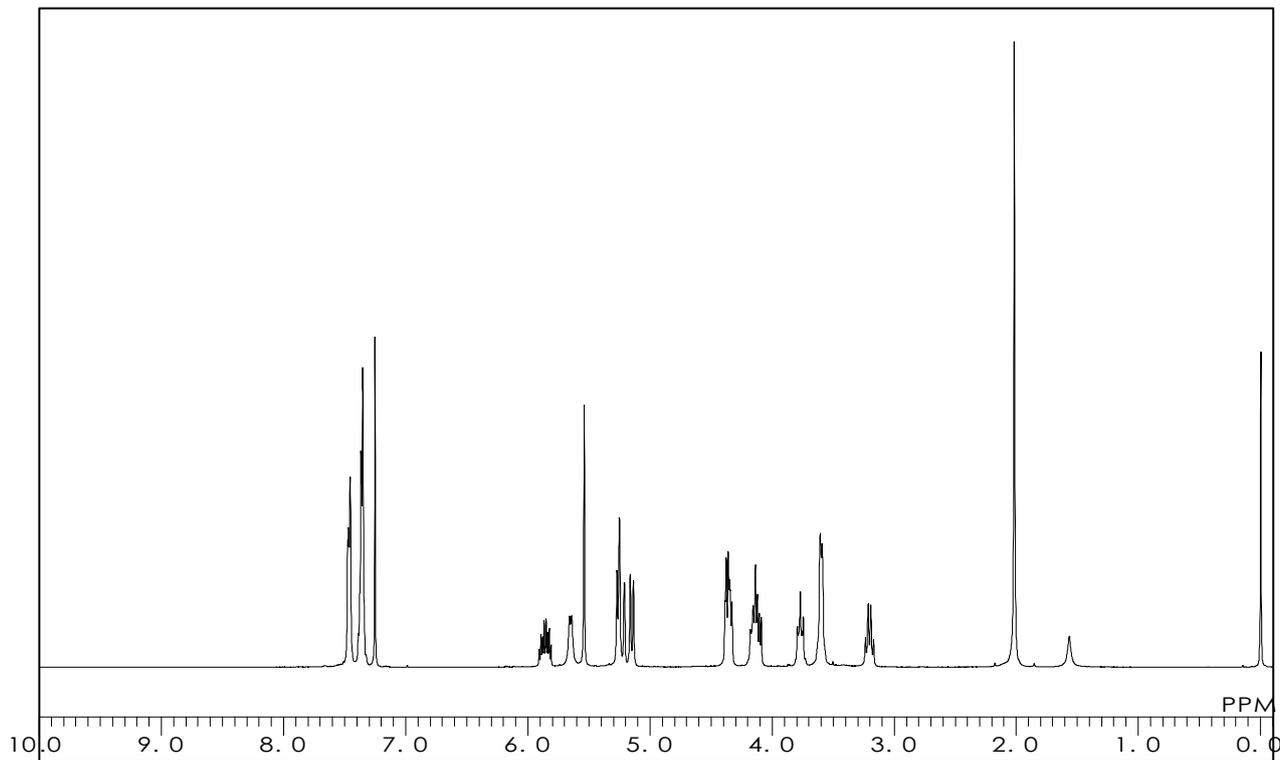
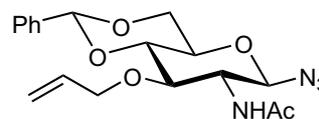
**2-Acetamido-3-O-allyl-4,6-O-benzylidene-
2-deoxy-β-D-glucopyranosyl Azide**

$C_{18}H_{22}N_4O_5 = 374.40$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 45.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

A1813

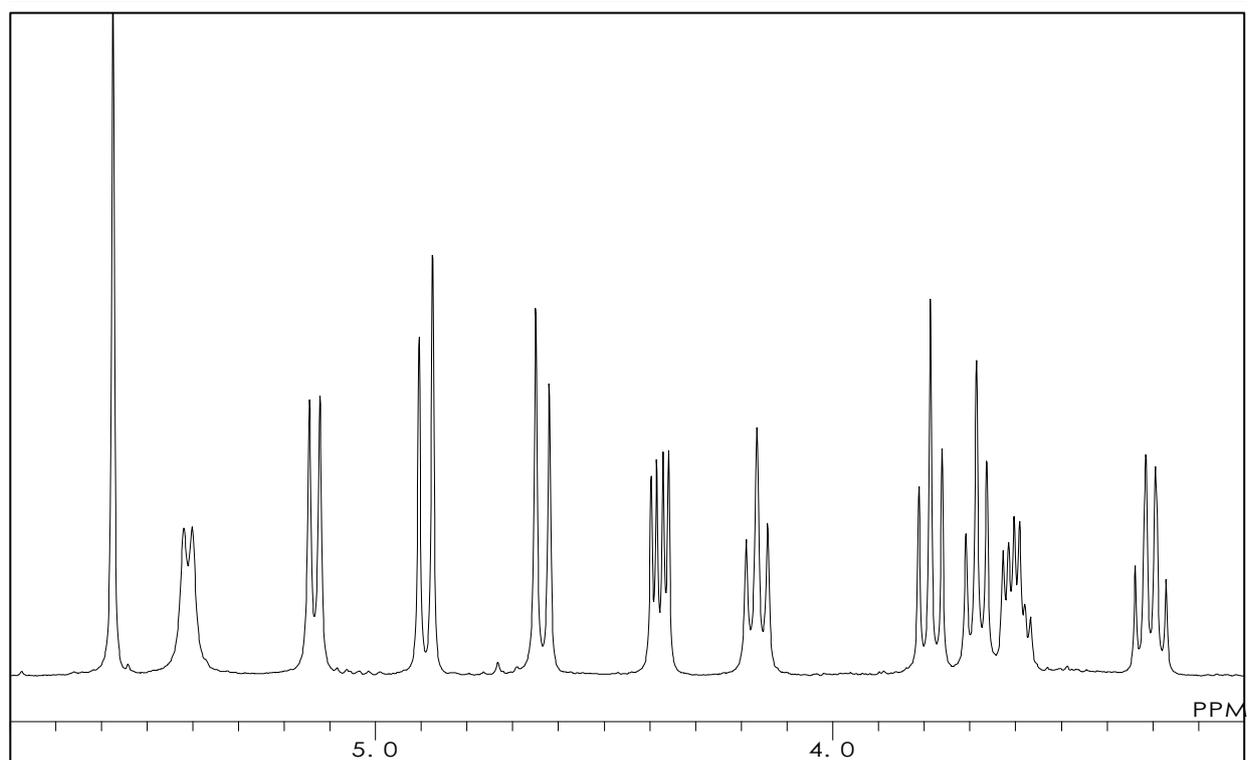
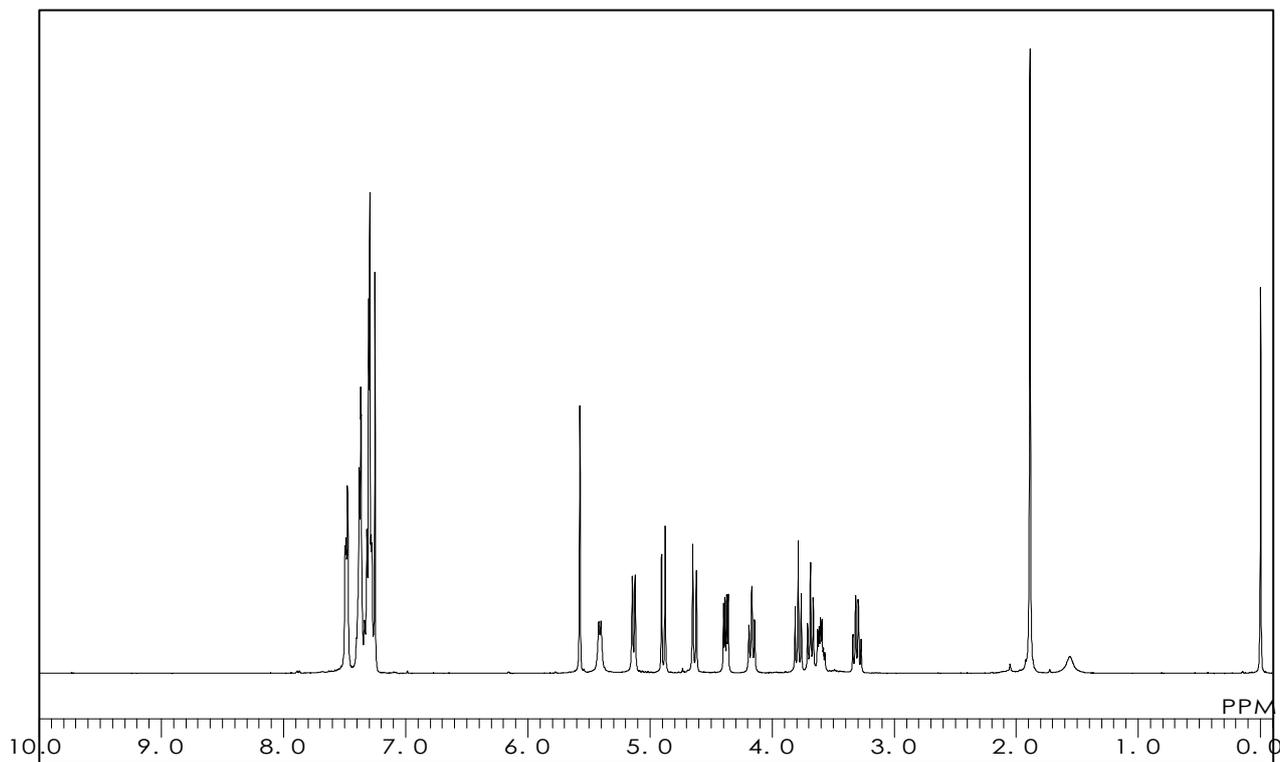
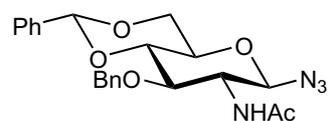
2-Acetamido-3-O-benzyl-4,6-O-benzylidene-2-deoxy- β -D-glucopyranosyl Azide

$C_{22}H_{24}N_4O_5 = 424.46$ [80887-27-0]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 45.0 °C



A1811

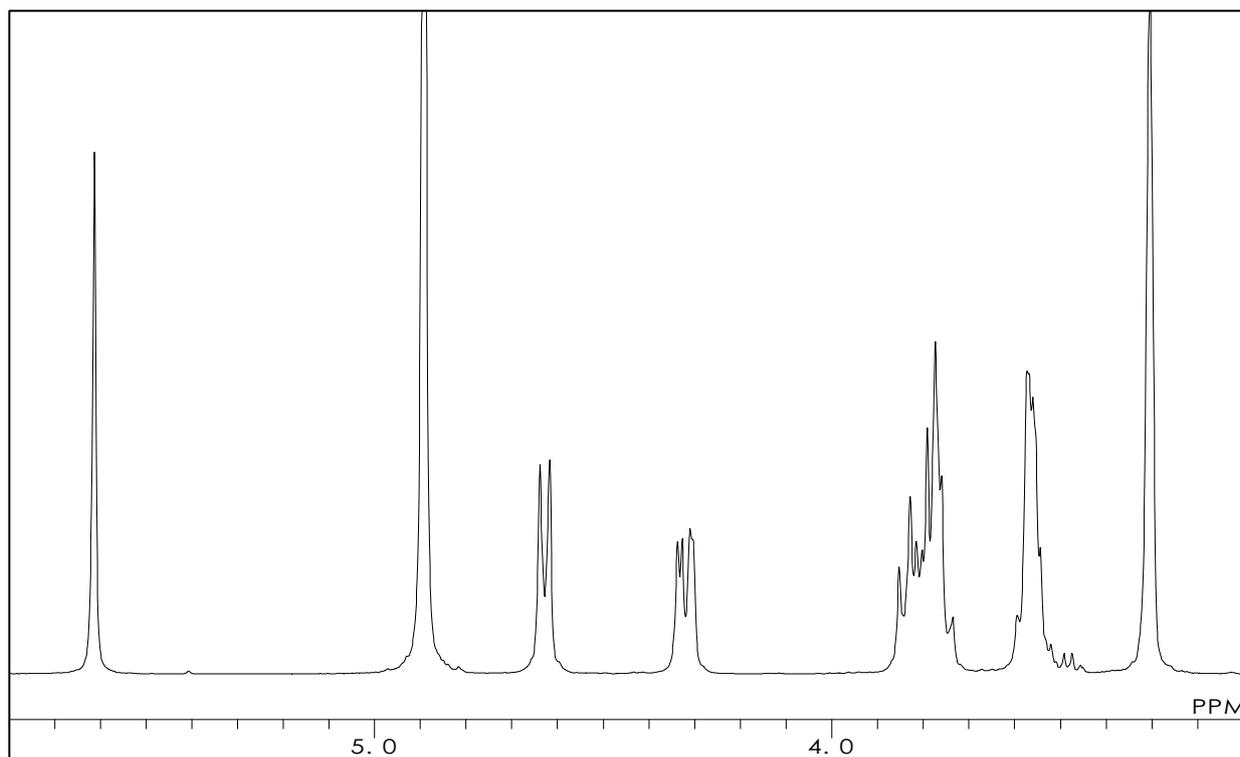
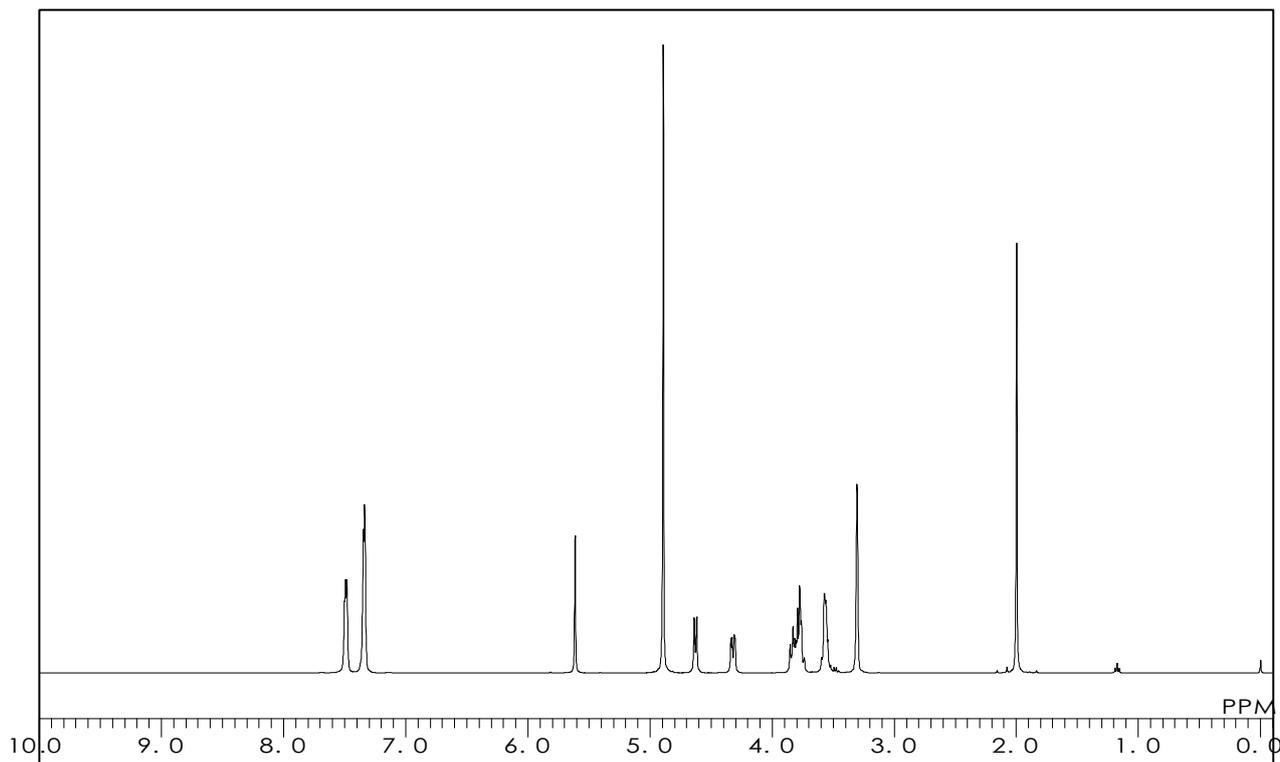
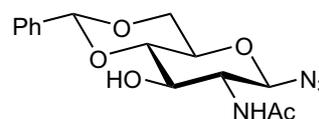
2-Acetamido-4,6-O-benzylidene-2-deoxy-β-D-glucopyranosyl Azide

C₁₅H₁₈N₄O₅ = 334.33 [168397-51-1]

Solvent : CD₃OD

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

A1614

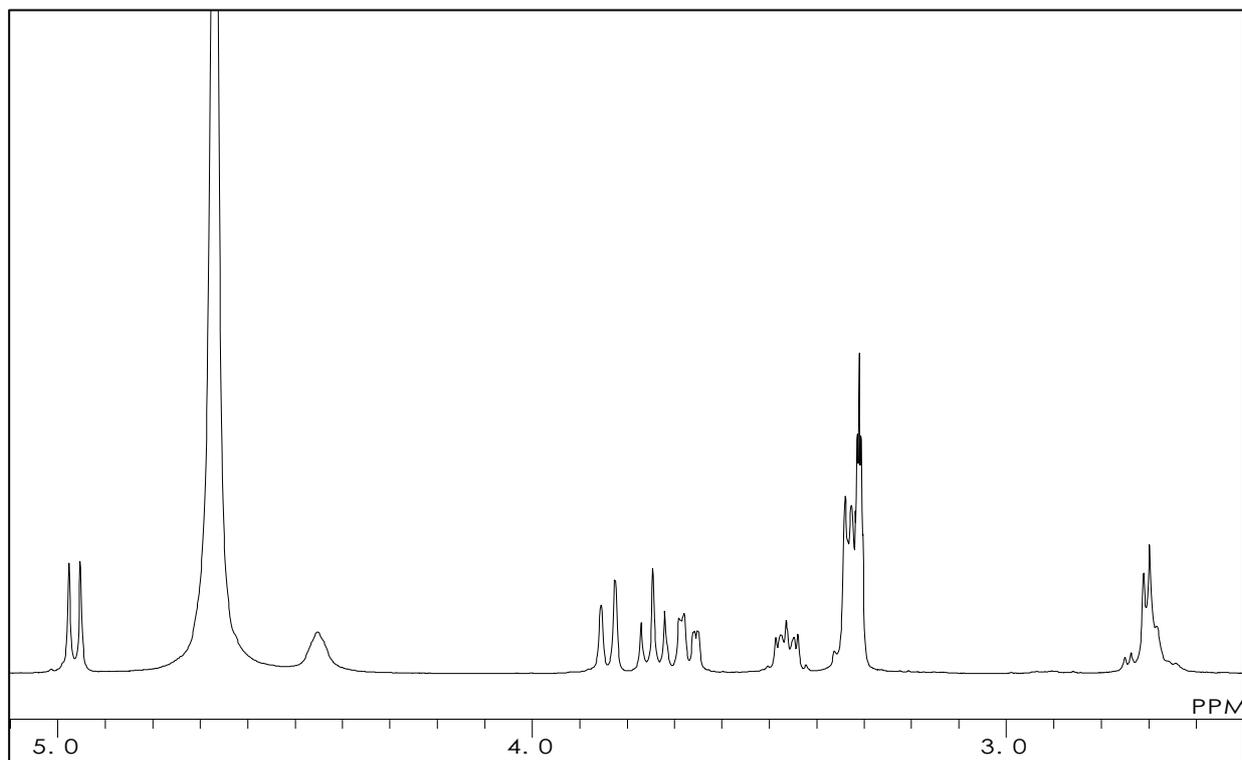
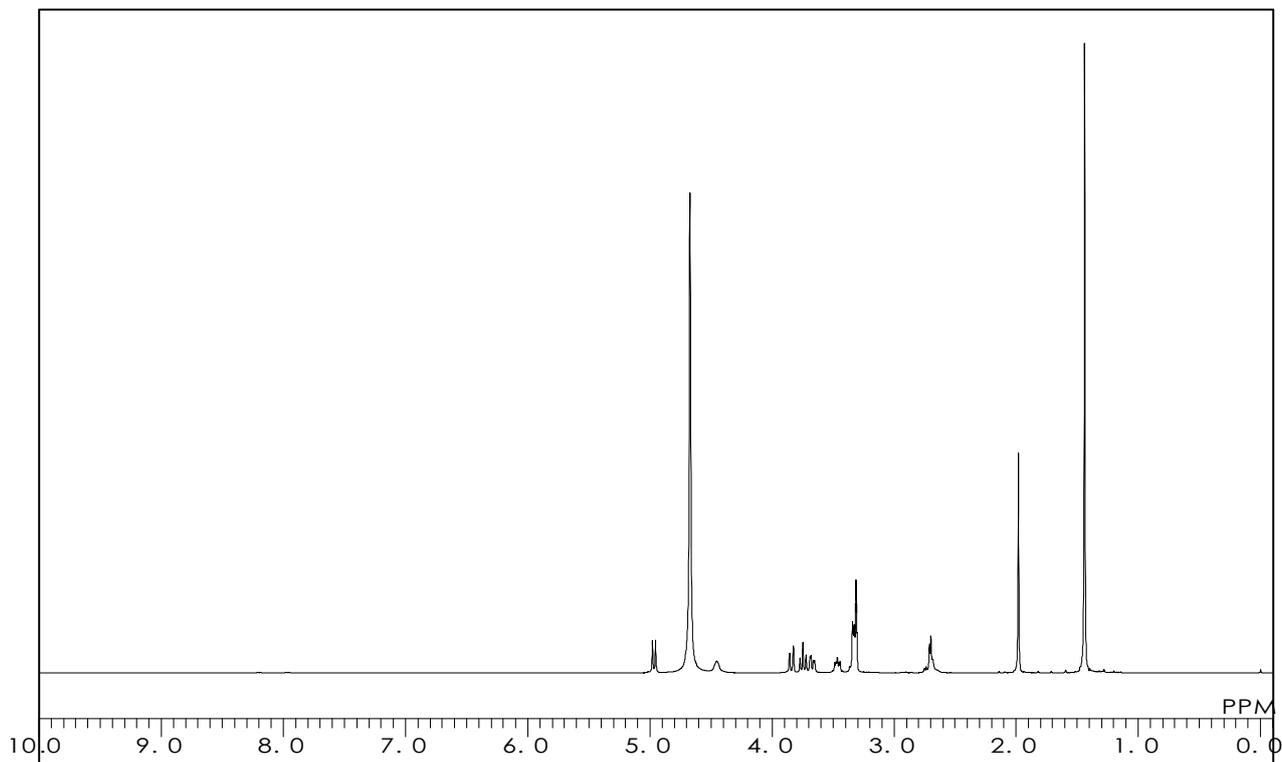
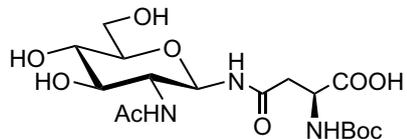
***N*^ω-(2-Acetamido-2-deoxy-β-D-glucopyranosyl)-*N*^α-(*tert*-butoxy-carbonyl)-L-asparagine**

C₁₇H₂₉N₃O₁₀ = 435.43 [137255-40-4]

Solvent : CD₃OD

Internal Standard : Si(CH₃)₄

Measured Temperature : 45.0 °C



A1616

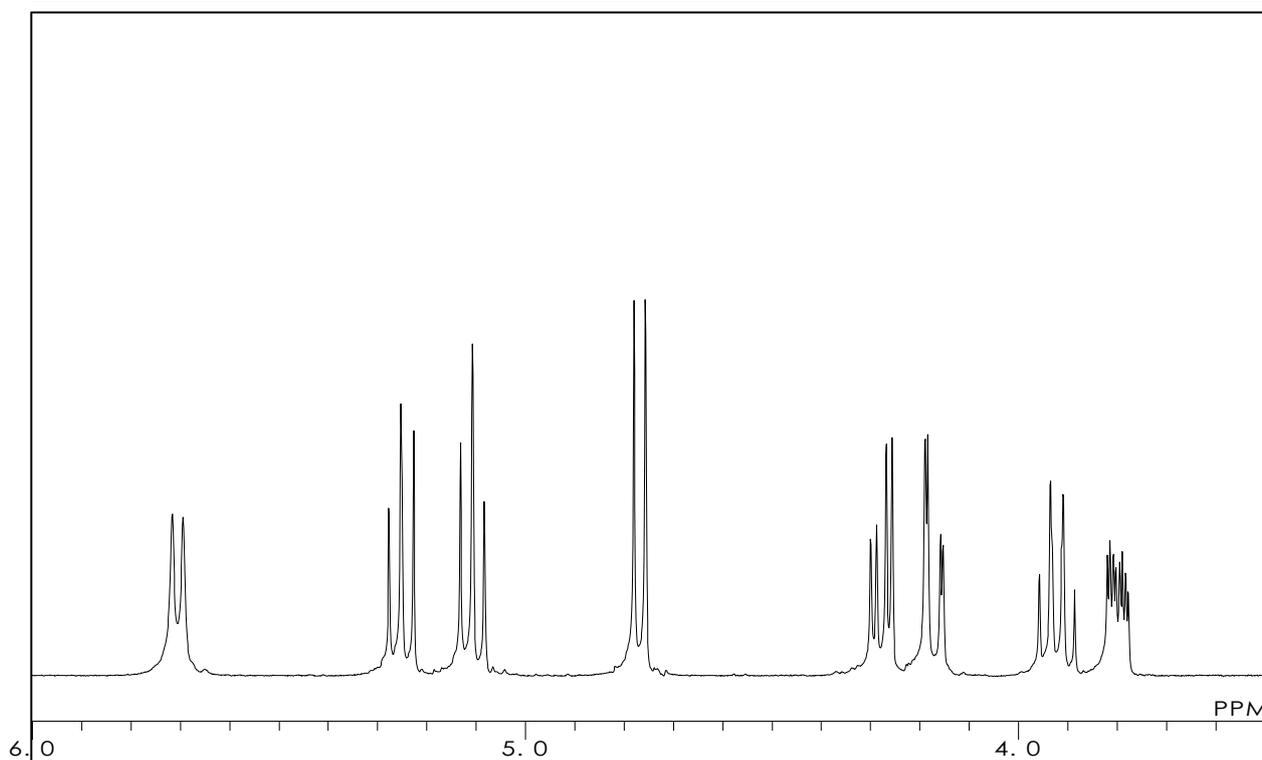
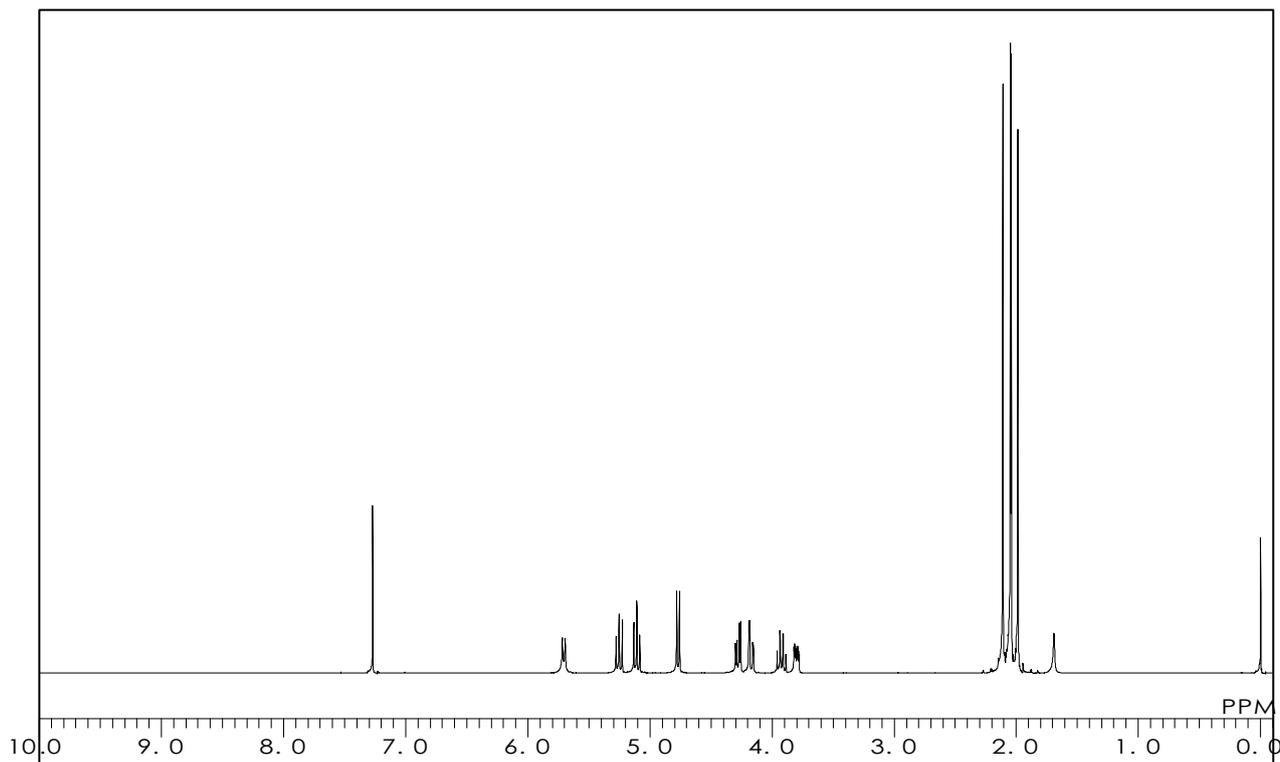
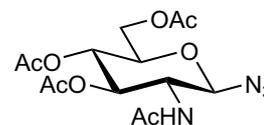
2-Acetamido-3,4,6-tri-O-acetyl-2-deoxy-β-D-glucopyranosyl Azide

C₁₄H₂₀N₄O₈ = 372.33 [6205-69-2]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 21.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

A1678

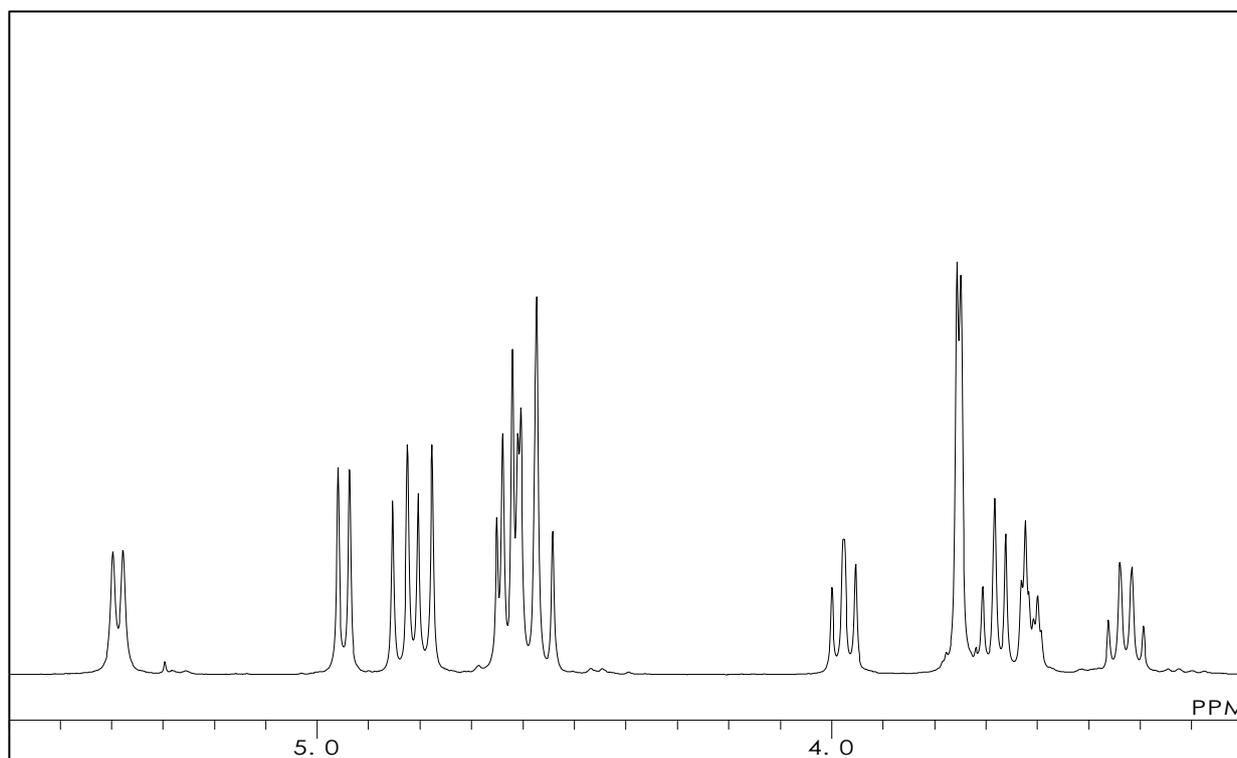
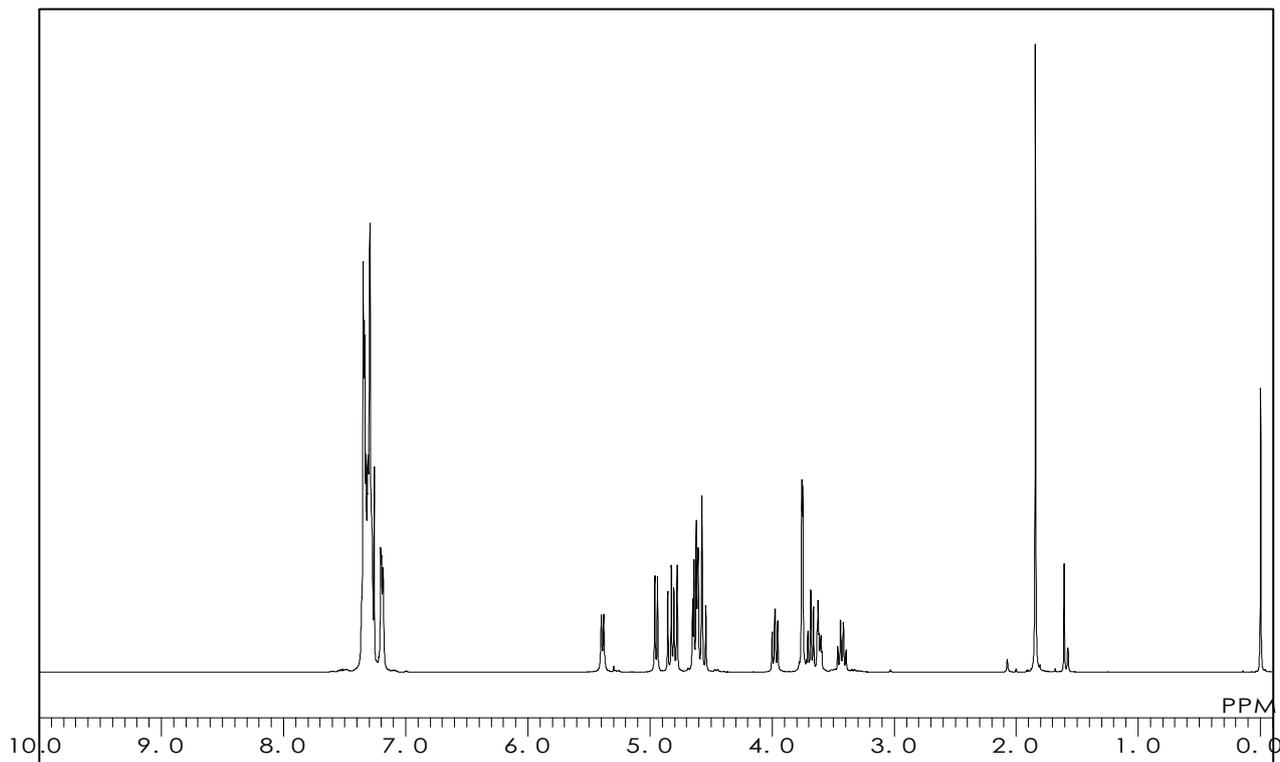
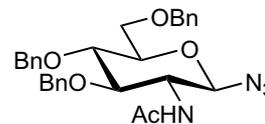
2-Acetamido-3,4,6-tri-O-benzyl-2-deoxy-β-D-glucopyranosyl Azide

C₂₉H₃₂N₄O₅ = 516.60 [214467-60-4]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 19.8 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

A1685

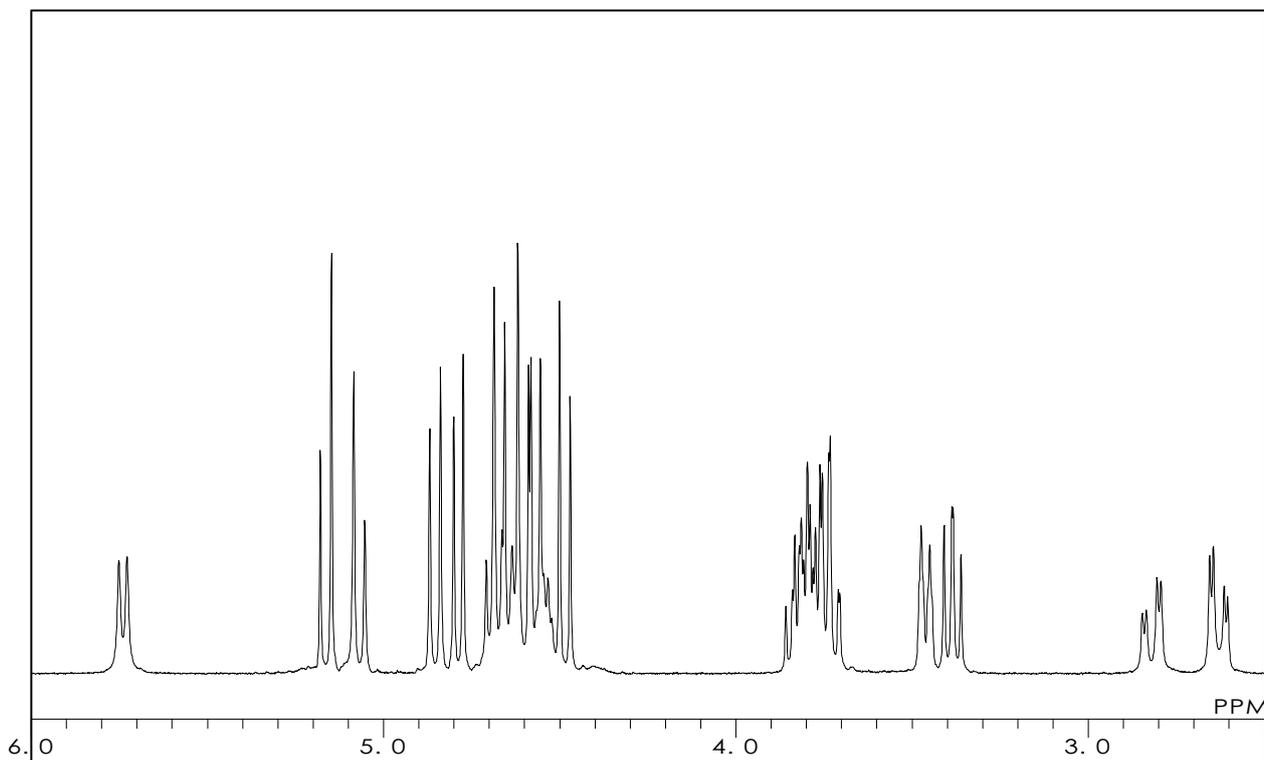
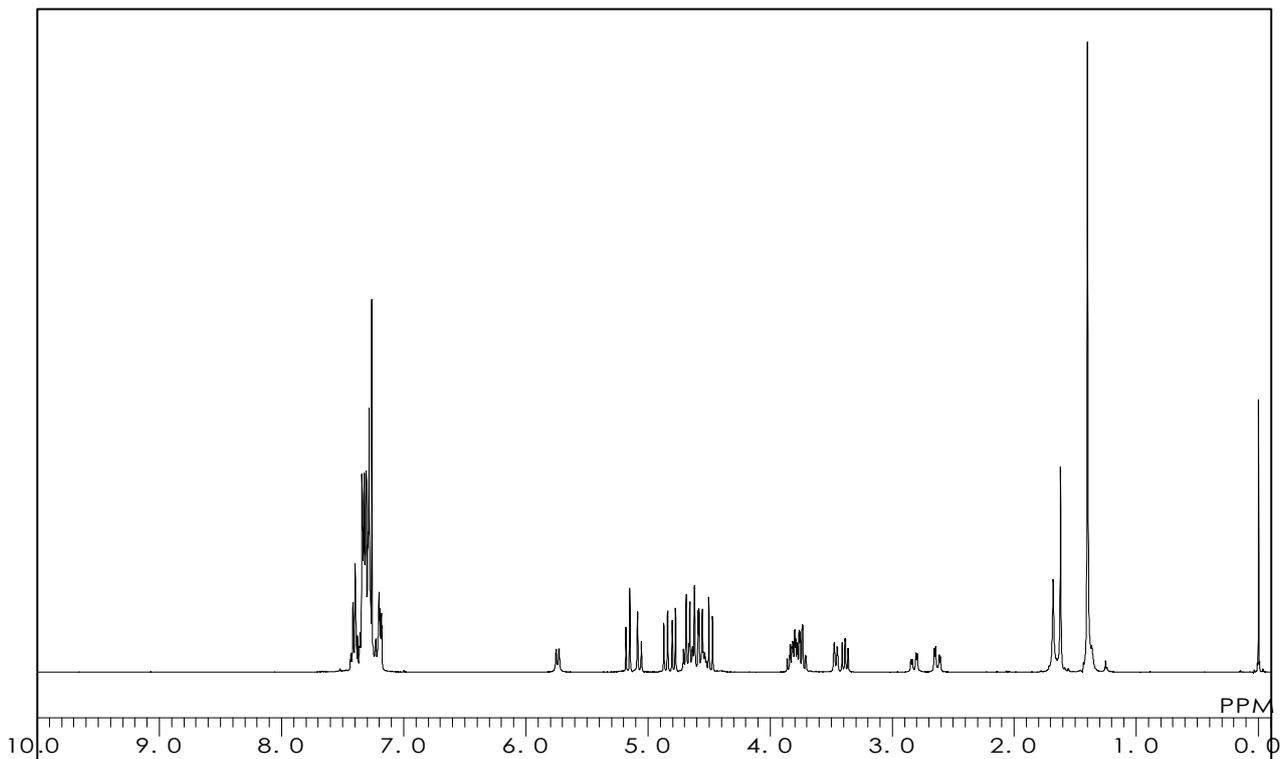
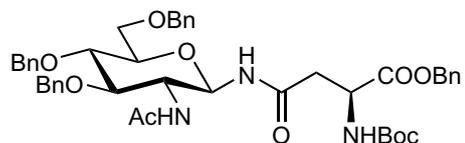
***N*^ω-(2-Acetamido-3,4,6-tri-*O*-benzyl-2-deoxy-β-D-glucopyranosyl)-*N*^α-(*tert*-butoxycarbonyl)-L-asparagine Benzyl Ester**

C₄₅H₅₃N₃O₁₀ = 795.93 [219968-28-2]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 21.3 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

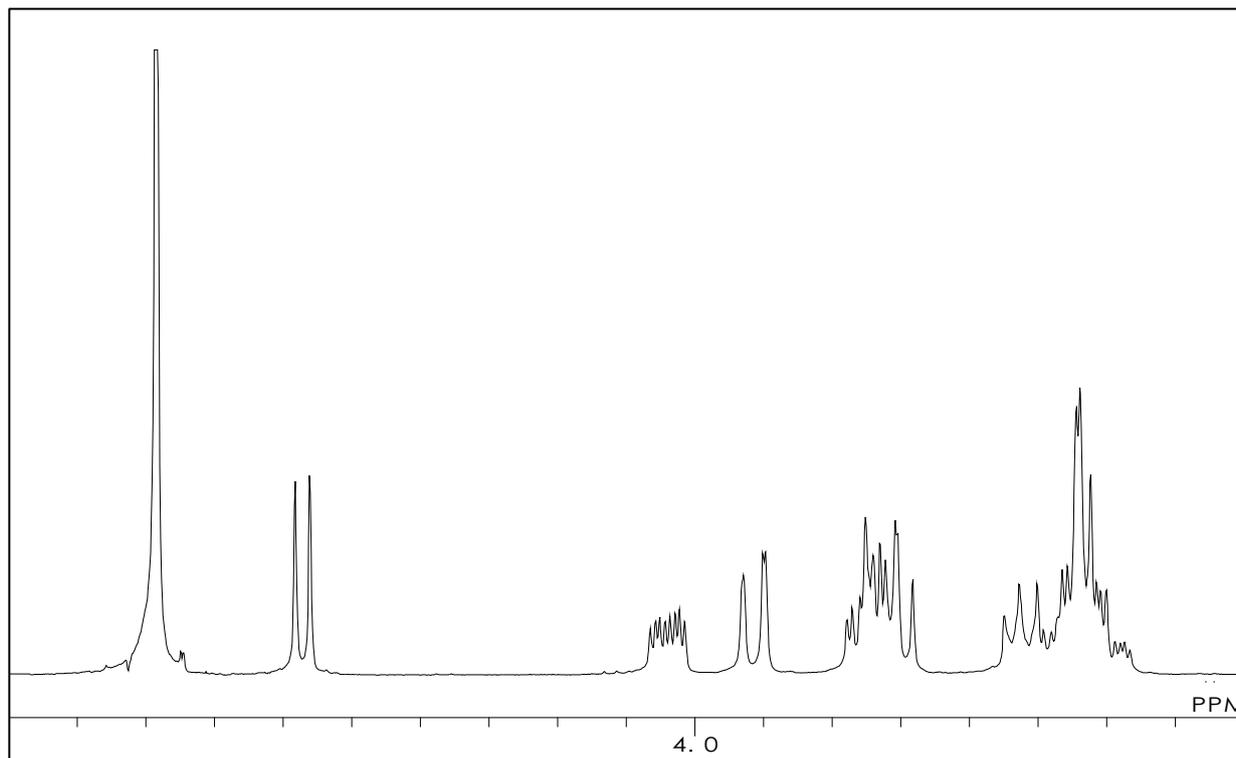
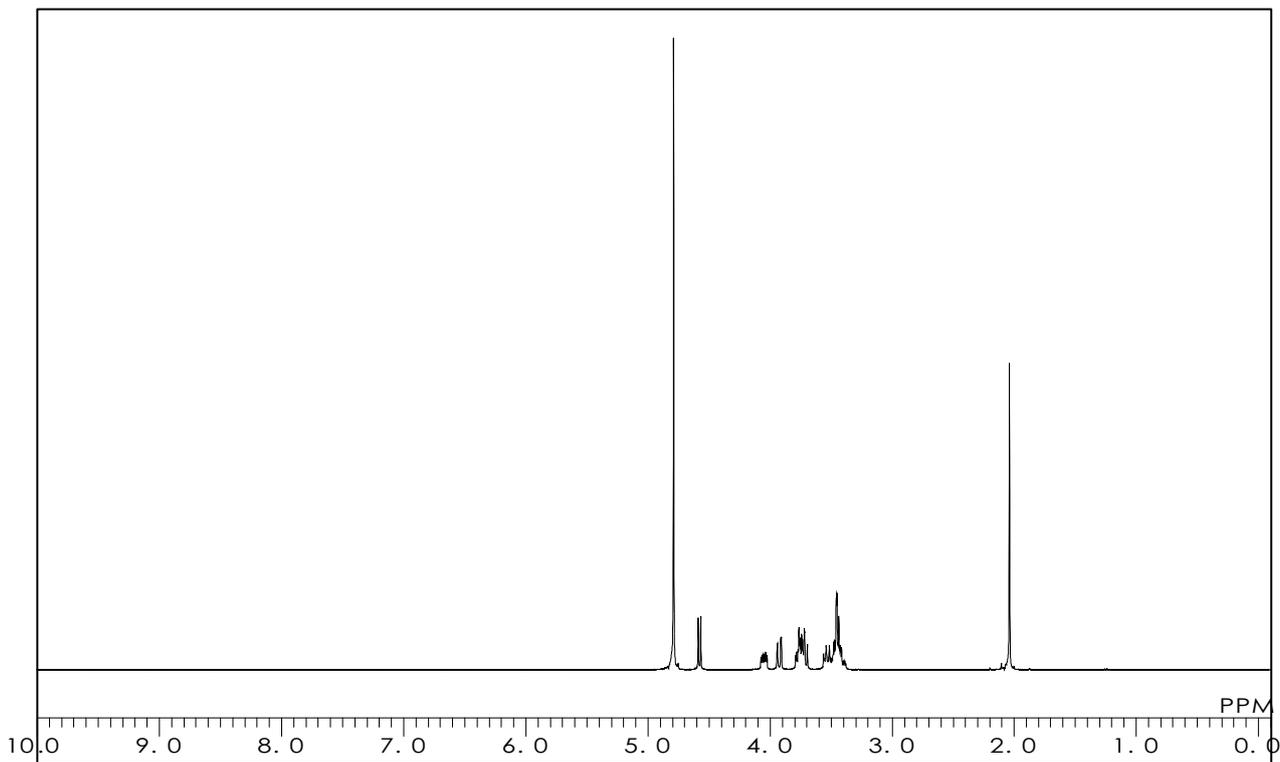
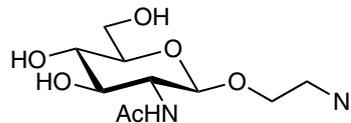
A2172

2-Azidoethyl 2-Acetamido-2-deoxy-β-D-glucopyranoside

C₁₀H₁₈N₄O₆ = 290.28 [142072-12-6]

Solvent : D₂O

Measured Temperature : 23.2 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

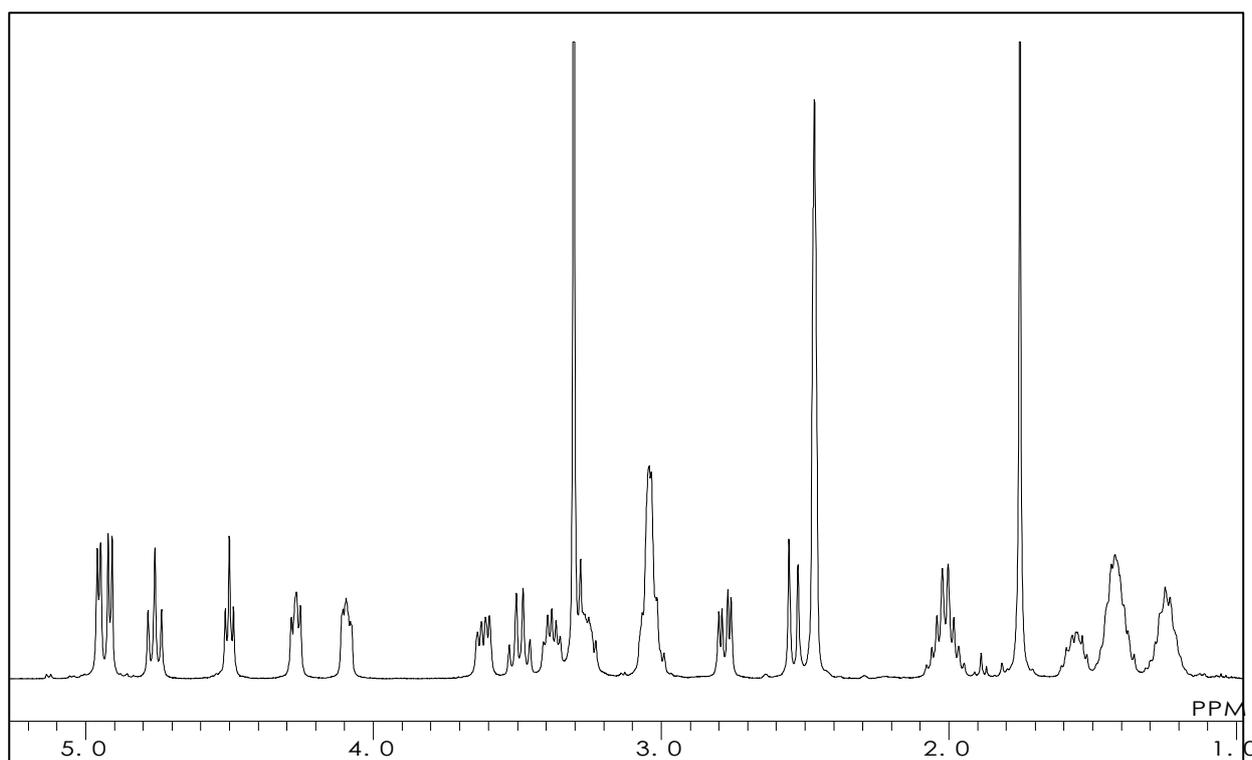
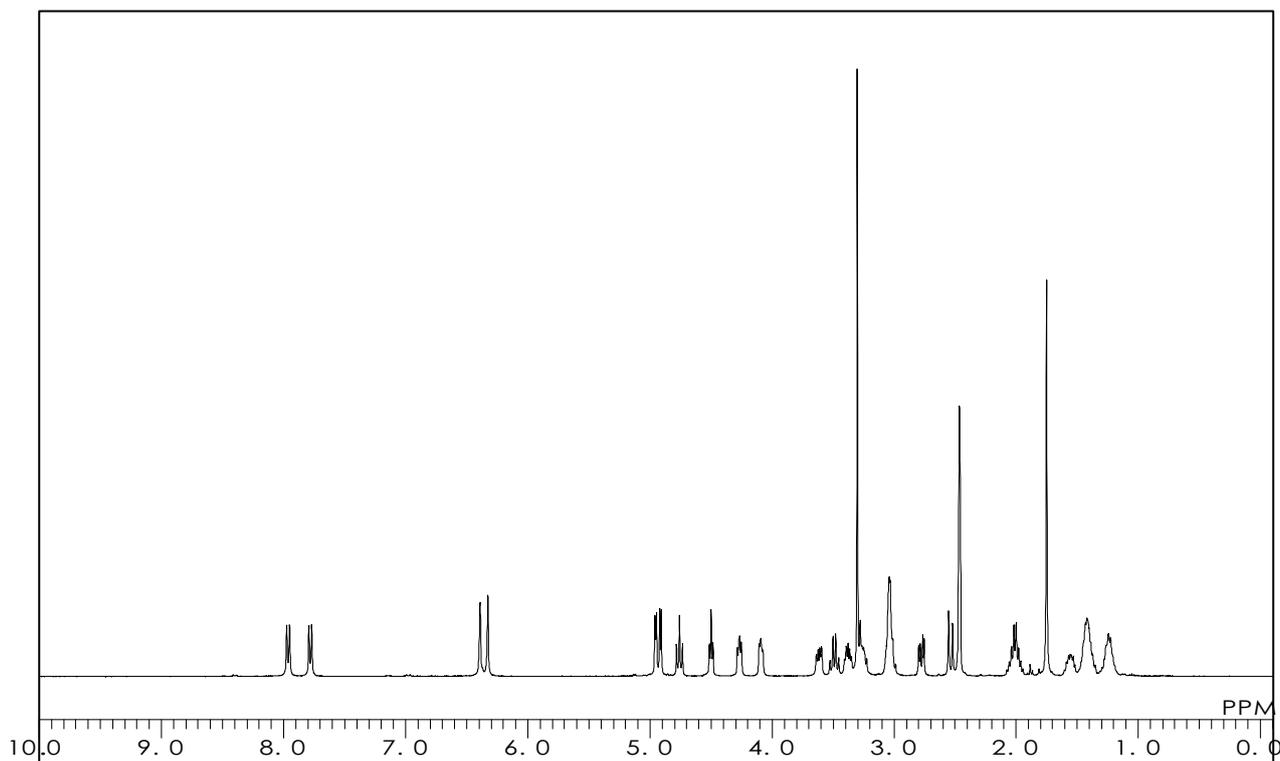
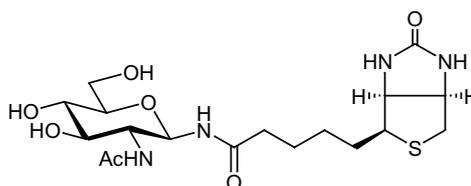
G0297

N-GlcNAc-Biotin

$C_{18}H_{30}N_4O_7S = 446.52$ [1272755-69-7]

Solvent : DMSO- d_6

Measured Temperature : 22.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M2051

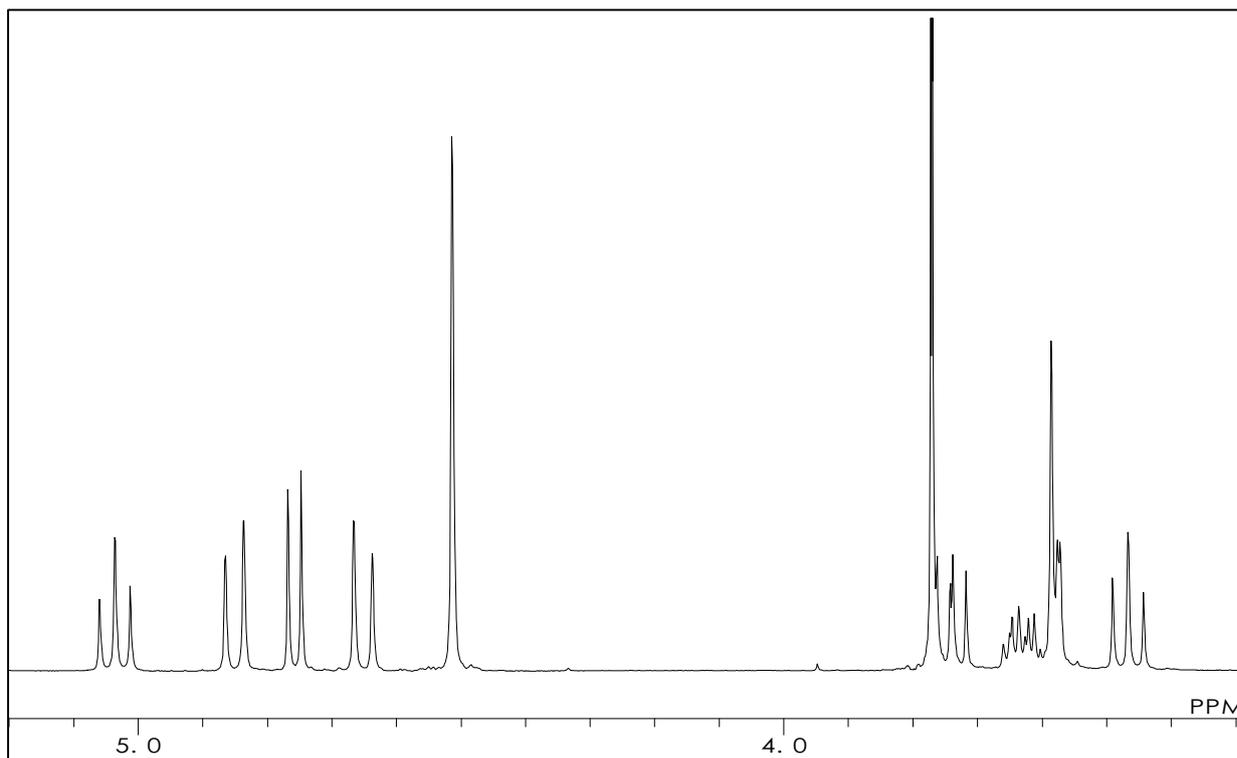
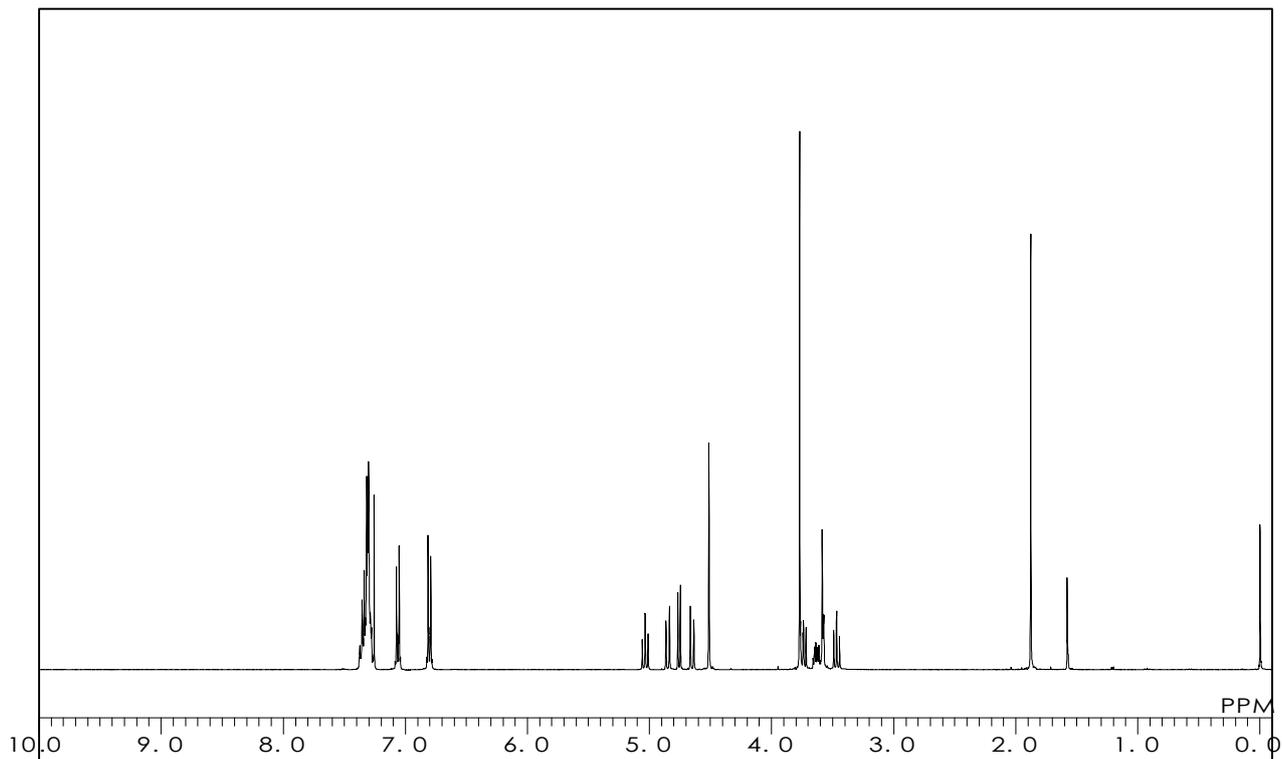
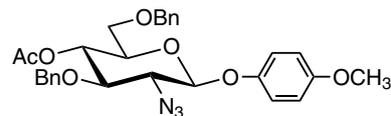
4-Methoxyphenyl 4-O-Acetyl-2-azido-3,6-di-O-benzyl-2-deoxy-β-D-glucopyranoside

$C_{29}H_{31}N_3O_7 = 533.58$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 18.1 °C



M1638

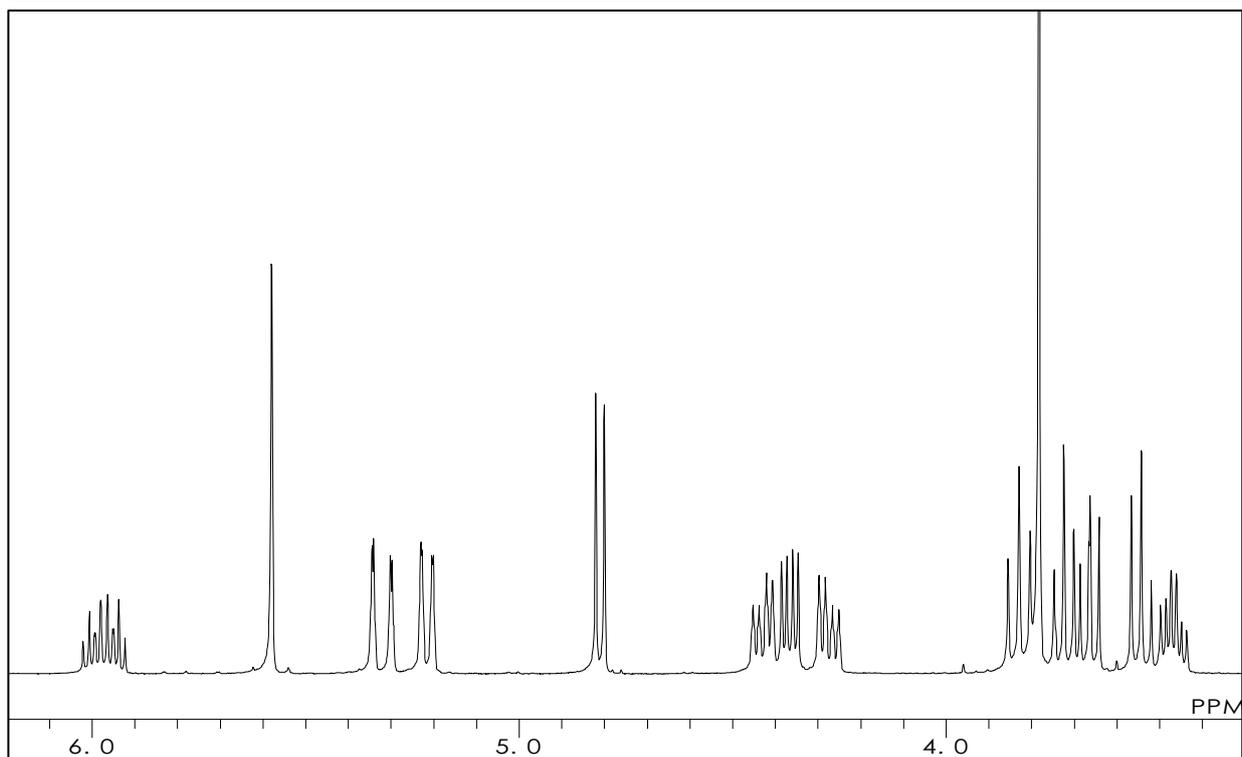
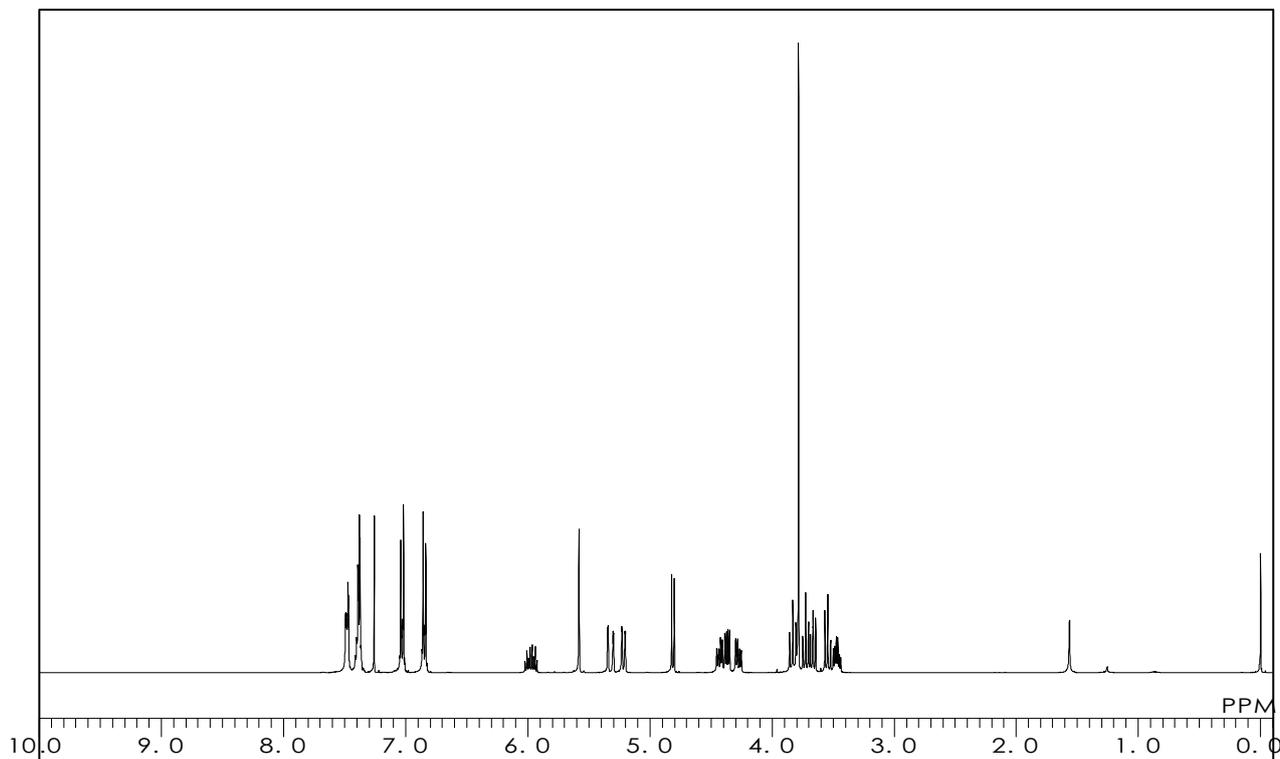
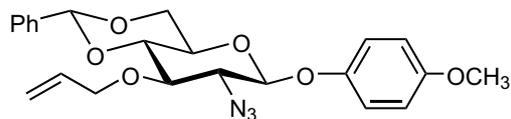
4-Methoxyphenyl 3-O-Allyl-2-azido-4,6-O-benzylidene-2-deoxy- β -D-glucopyranoside

$C_{23}H_{25}N_3O_6 = 439.47$ [889453-78-5]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1598

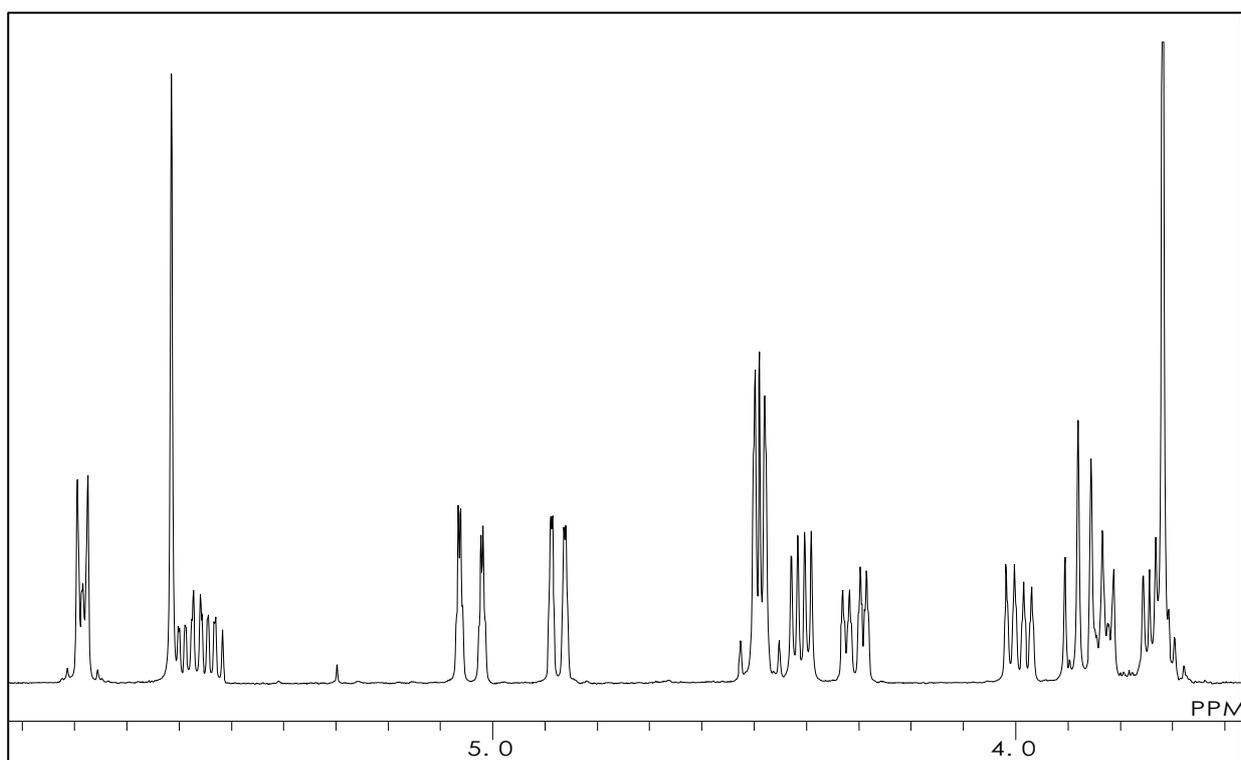
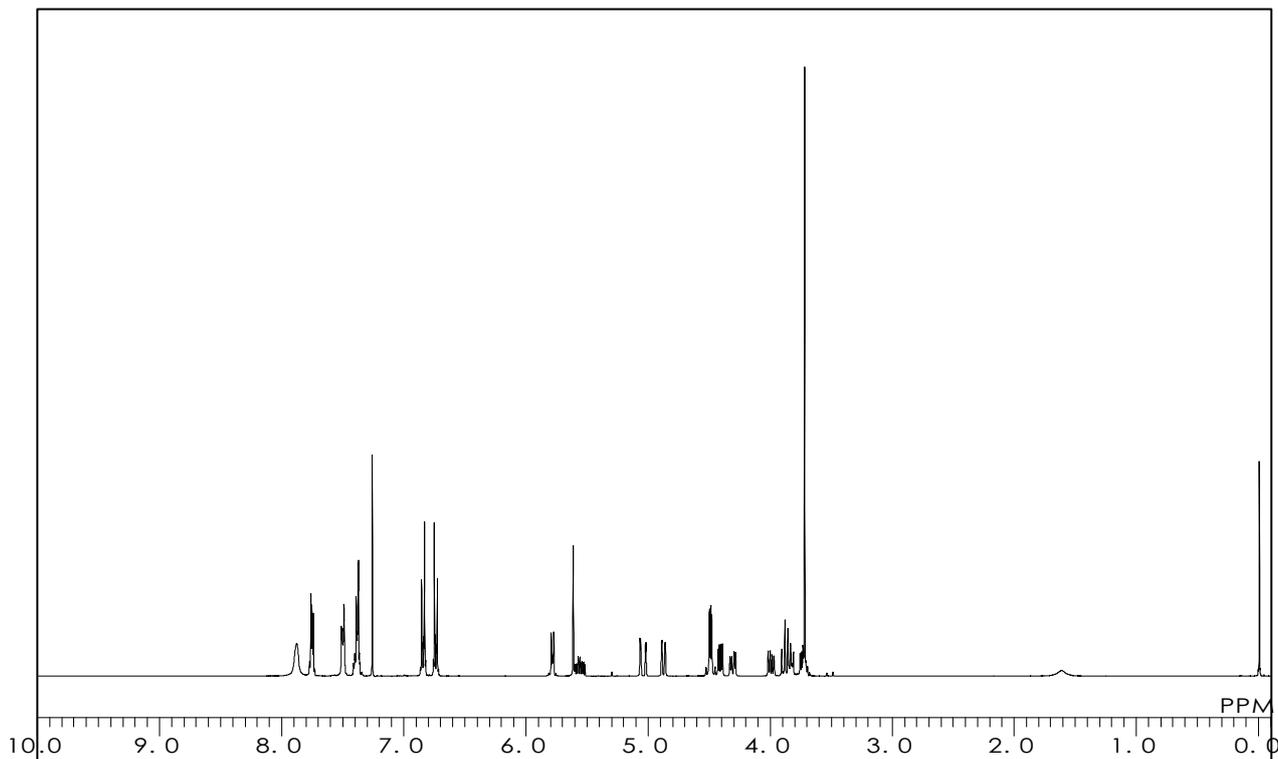
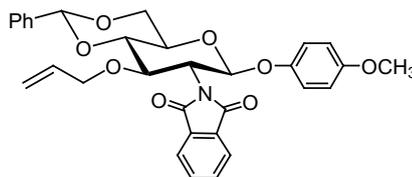
4-Methoxyphenyl 3-O-Allyl-4,6-O-benzylidene-2-deoxy-2-phthalimido- β -D-glucopyranoside

$C_{31}H_{29}NO_8 = 543.57$ [889453-84-3]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.3 °C



M1616

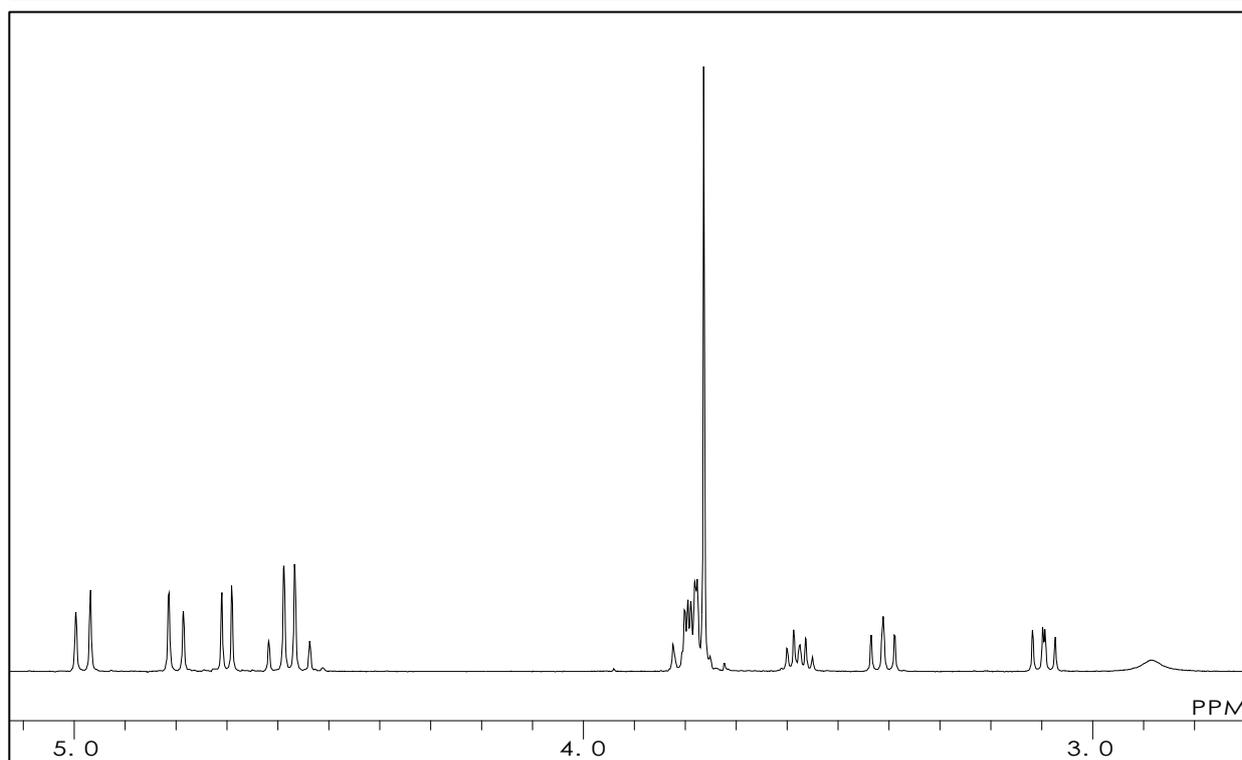
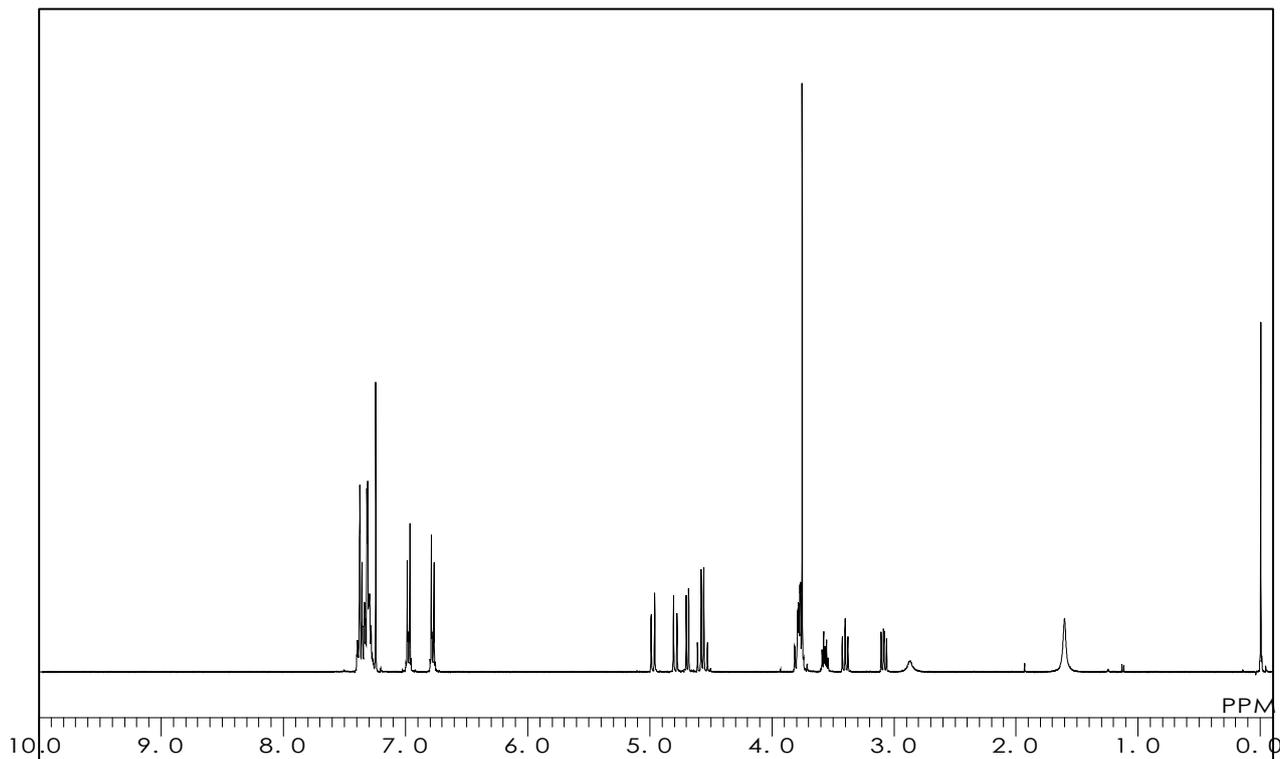
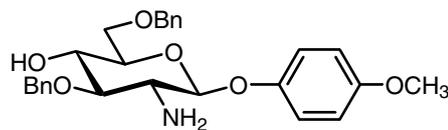
4-Methoxyphenyl 2-Amino-3,6-di-O-benzyl-2-deoxy- β -D-glucopyranoside

$C_{27}H_{31}NO_6 = 465.55$ [1272755-07-3]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 23.6 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1637

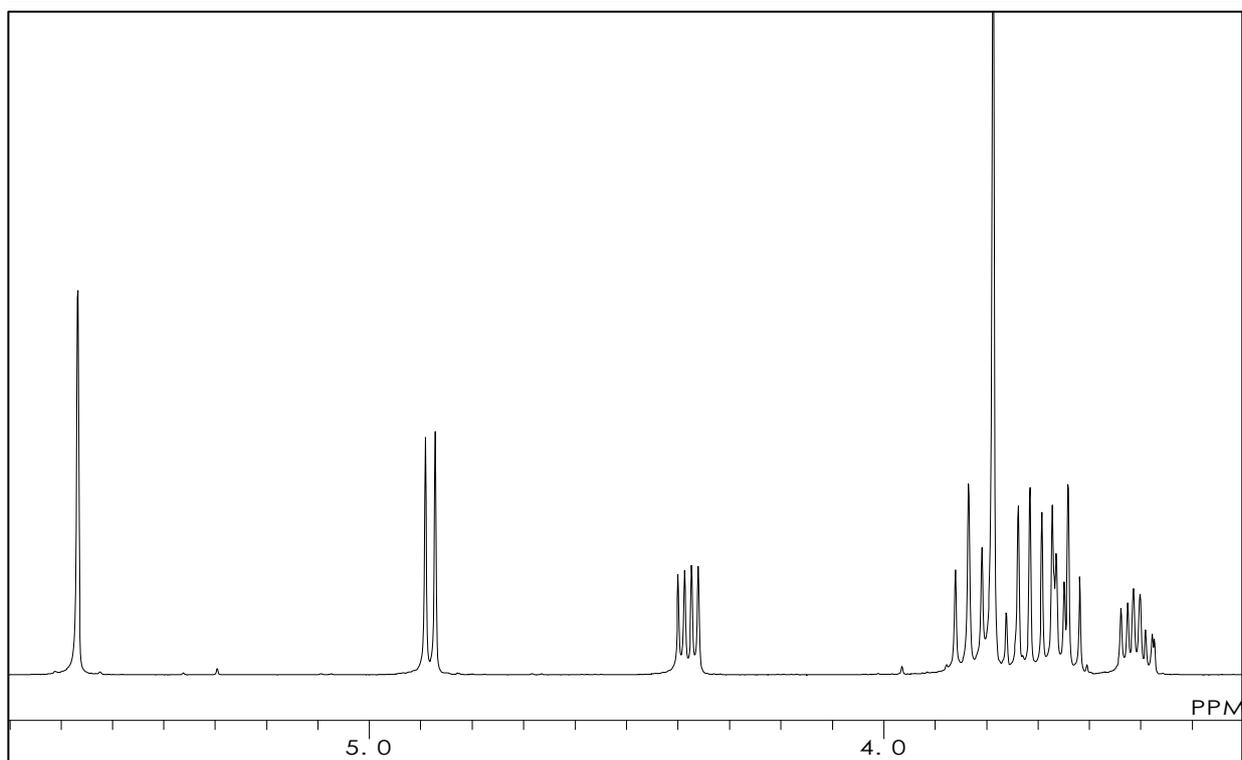
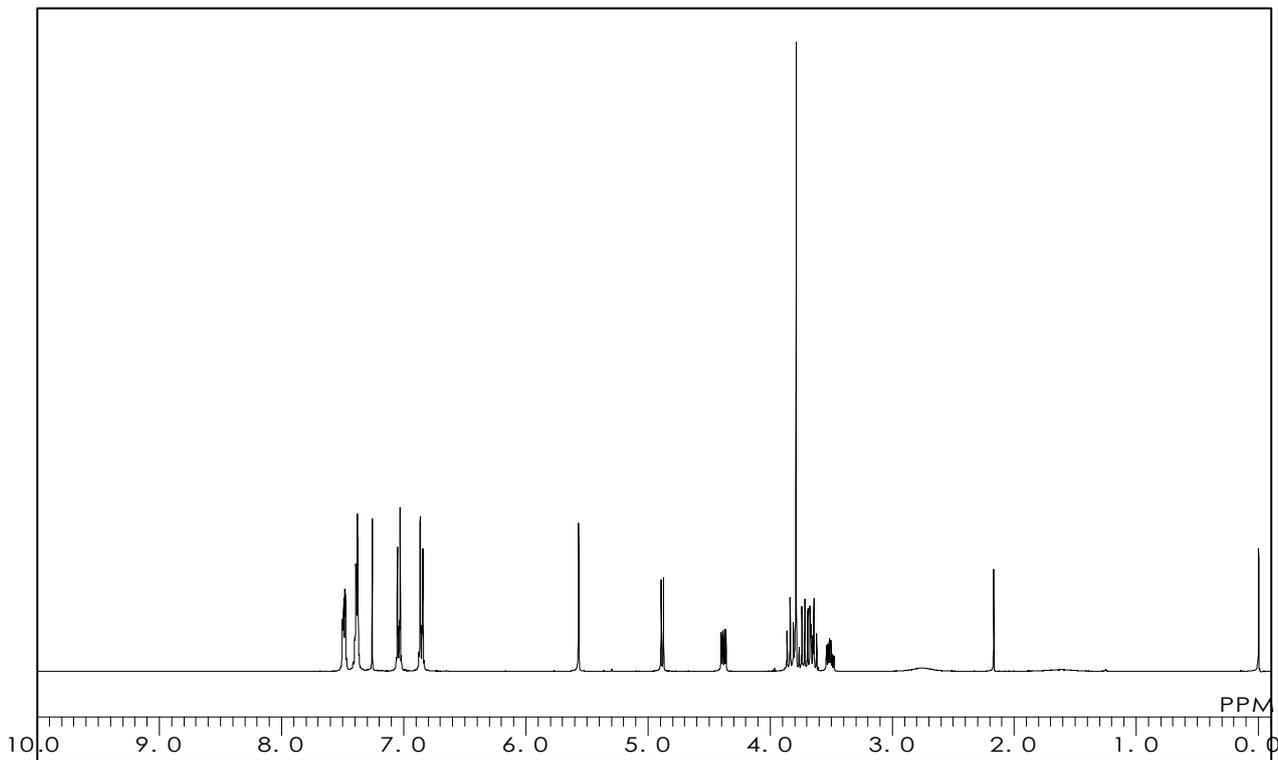
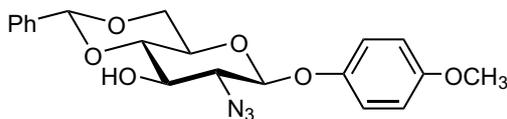
4-Methoxyphenyl 2-Azido-4,6-O-benzylidene-2-deoxy- β -D-glucopyranoside

$C_{20}H_{21}N_3O_6 = 399.40$ [1430068-18-0]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.7 °C



M1617

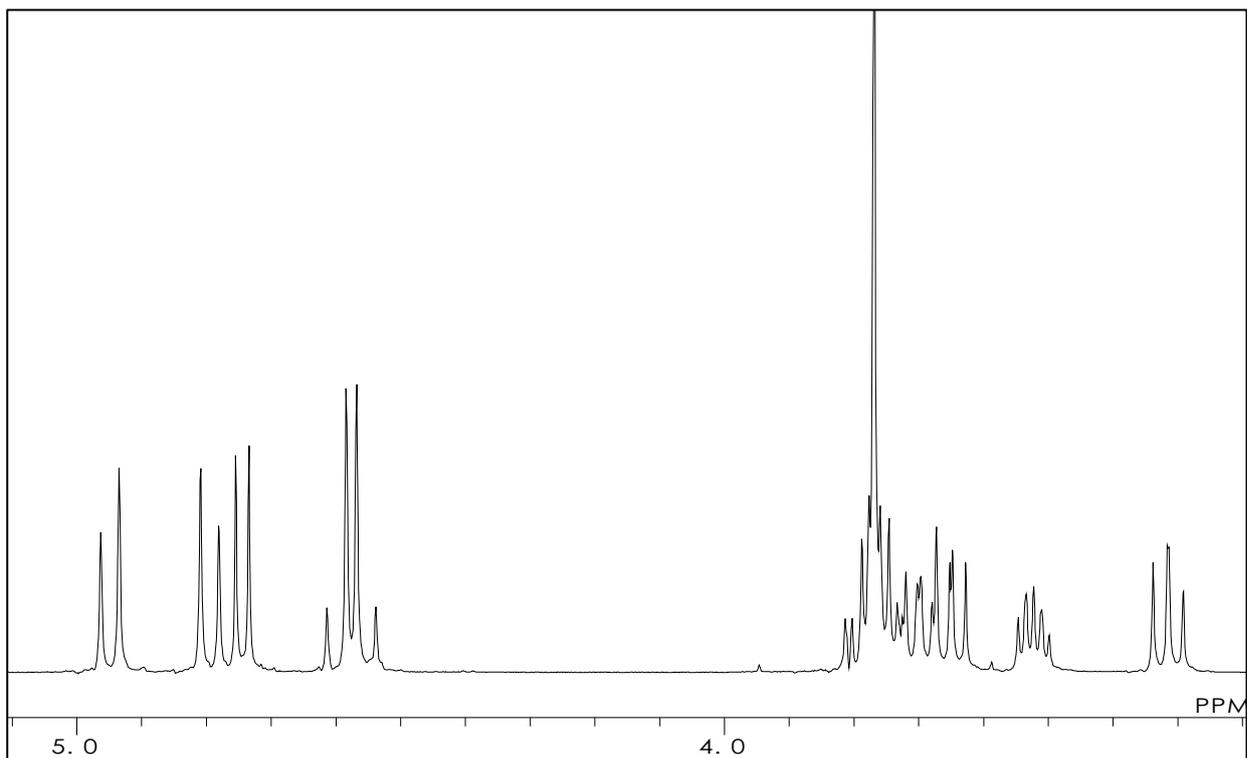
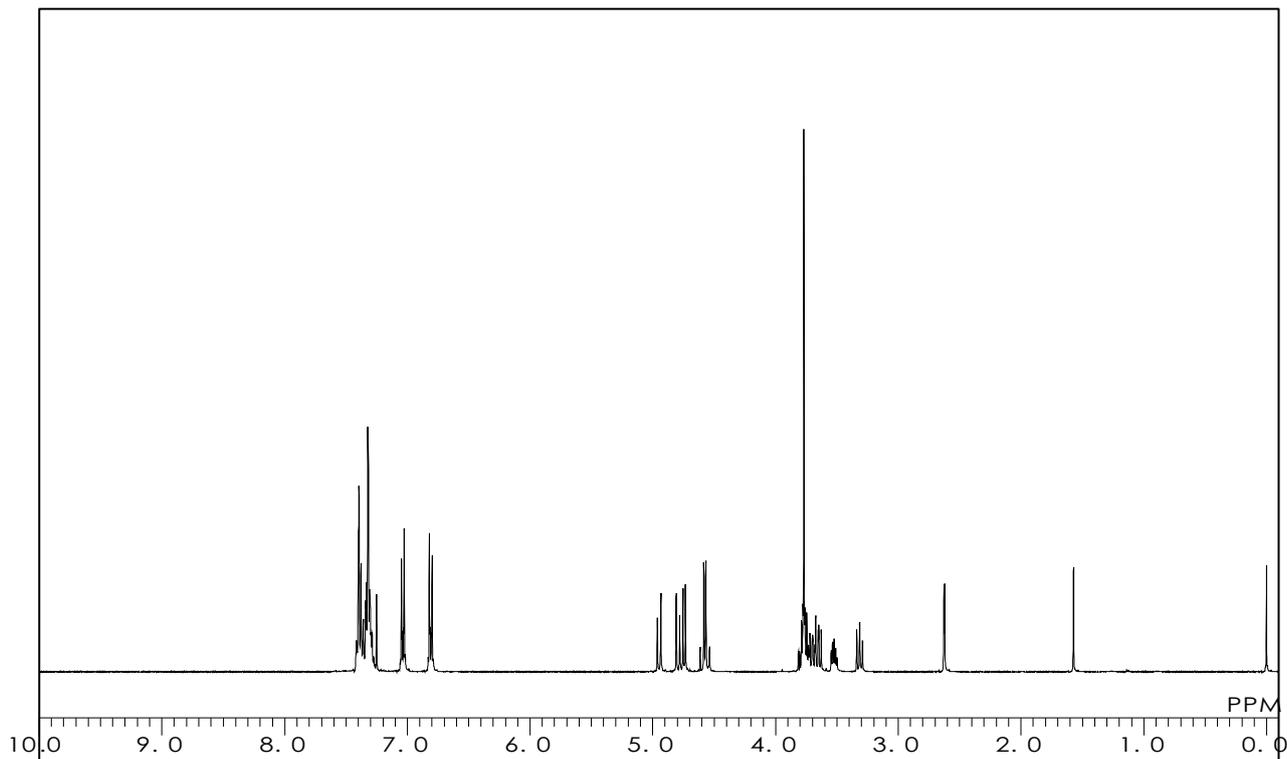
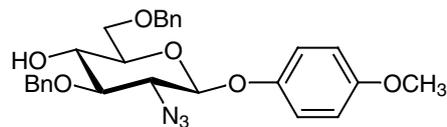
4-Methoxyphenyl 2-Azido-3,6-di-O-benzyl-2-deoxy- β -D-glucopyranoside

$C_{27}H_{29}N_3O_6 = 491.54$ [1272755-25-5]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 23.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1609

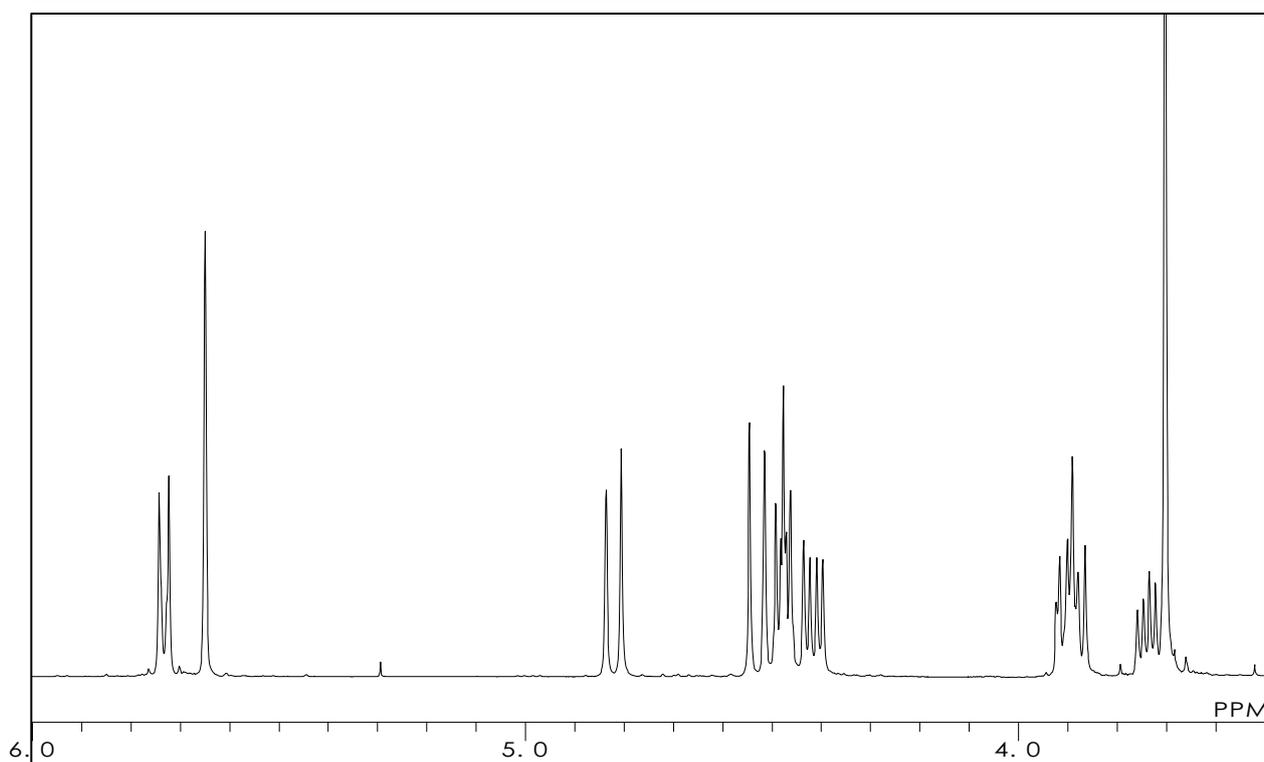
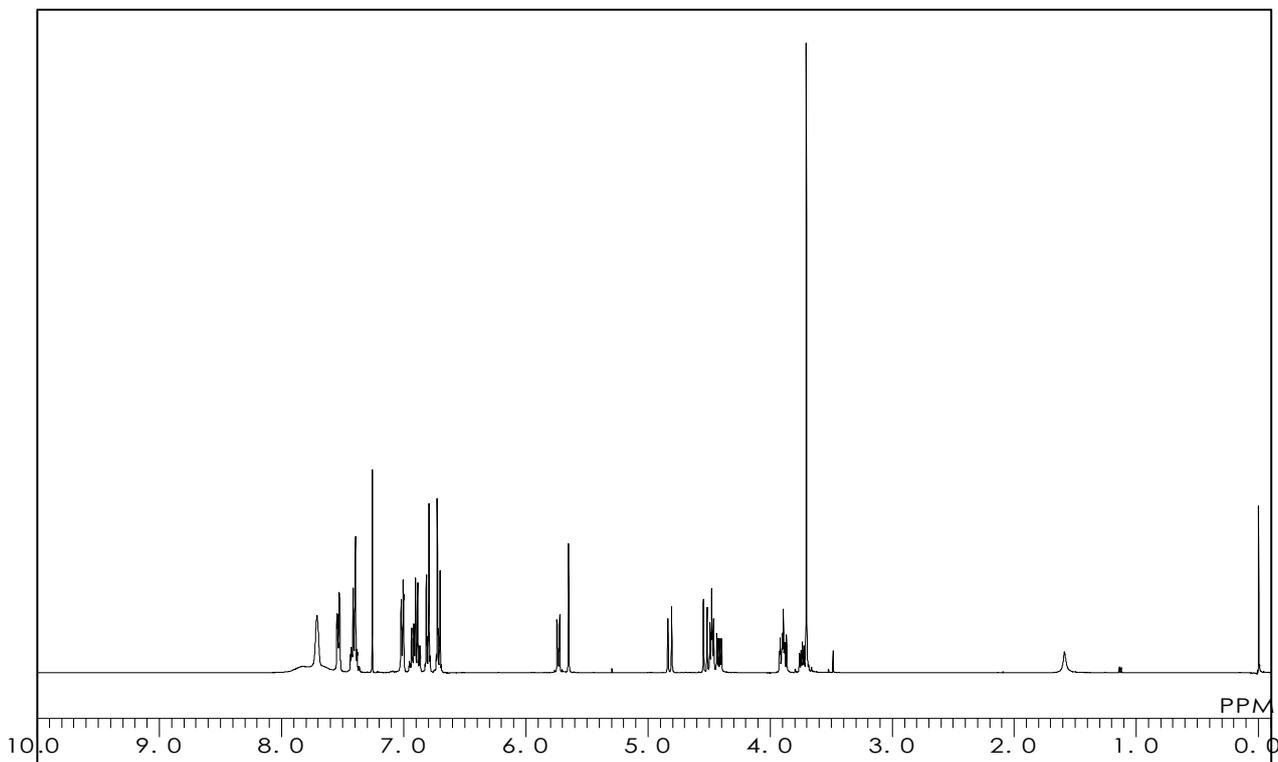
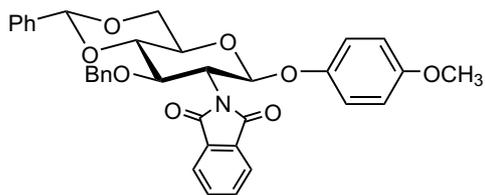
4-Methoxyphenyl 3-O-Benzyl-4,6-O-benzylidene-2-deoxy-2-phthalimido-β-D-glucopyranoside

C₃₅H₃₁NO₈ = 593.63 [129575-88-8]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 21.2 °C



M1479

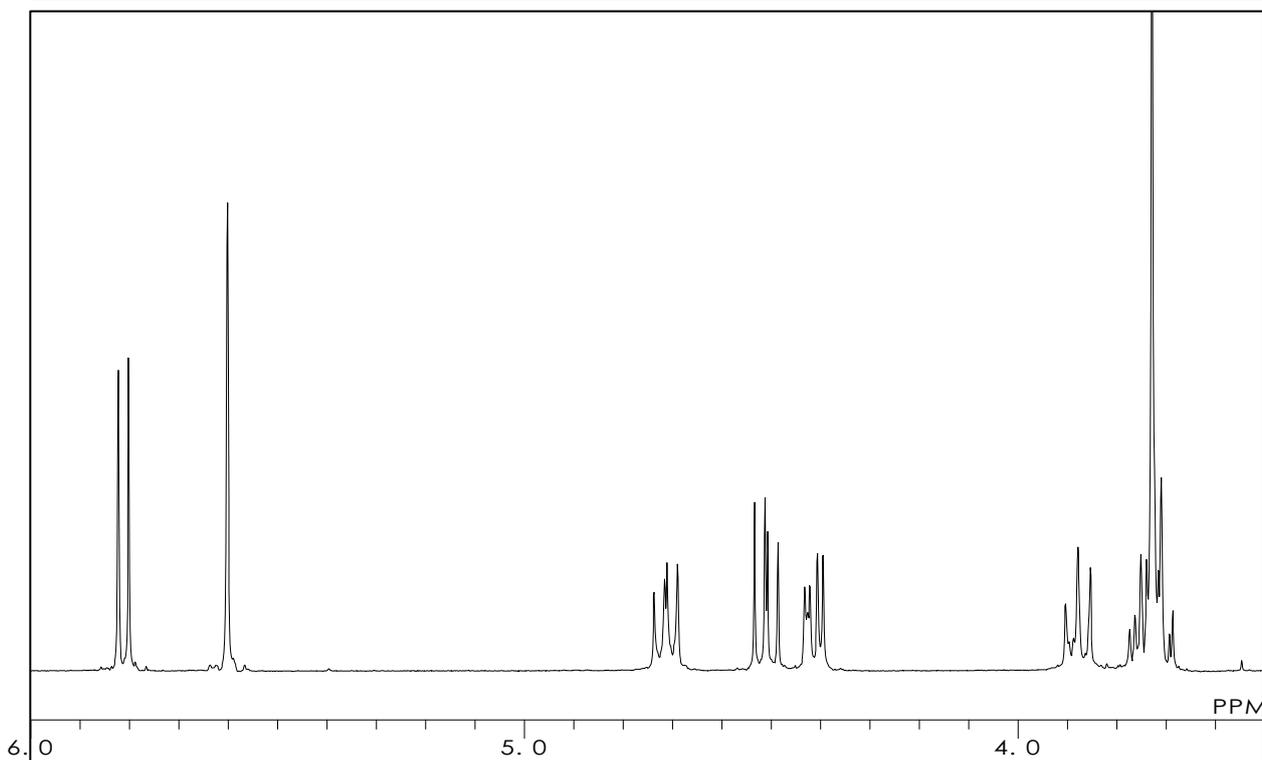
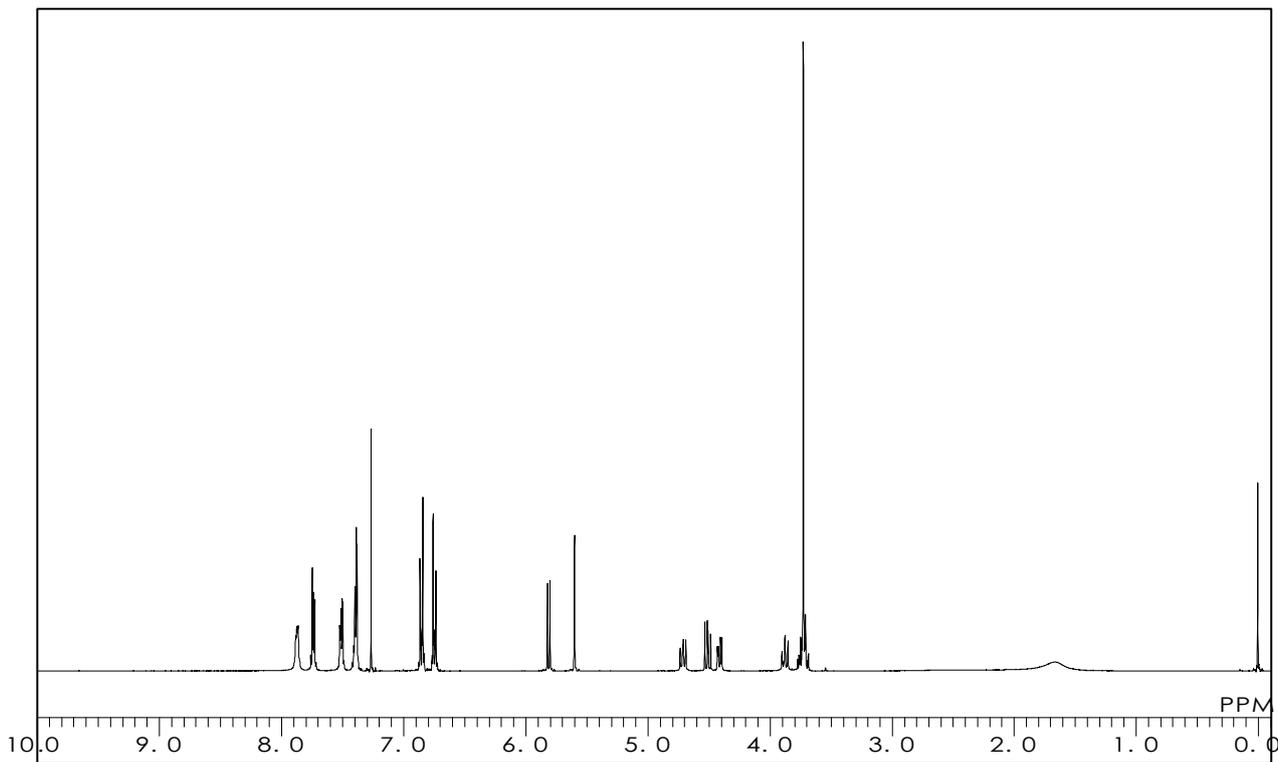
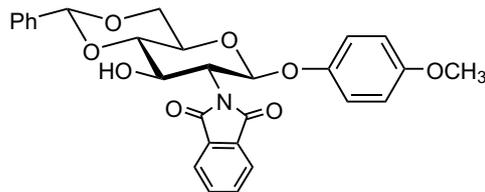
4-Methoxyphenyl 4,6-O-Benzylidene-2-deoxy-2-phthalimido- β -D-glucopyranoside

C₂₈H₂₅NO₈ = 503.51 [138906-43-1]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1615

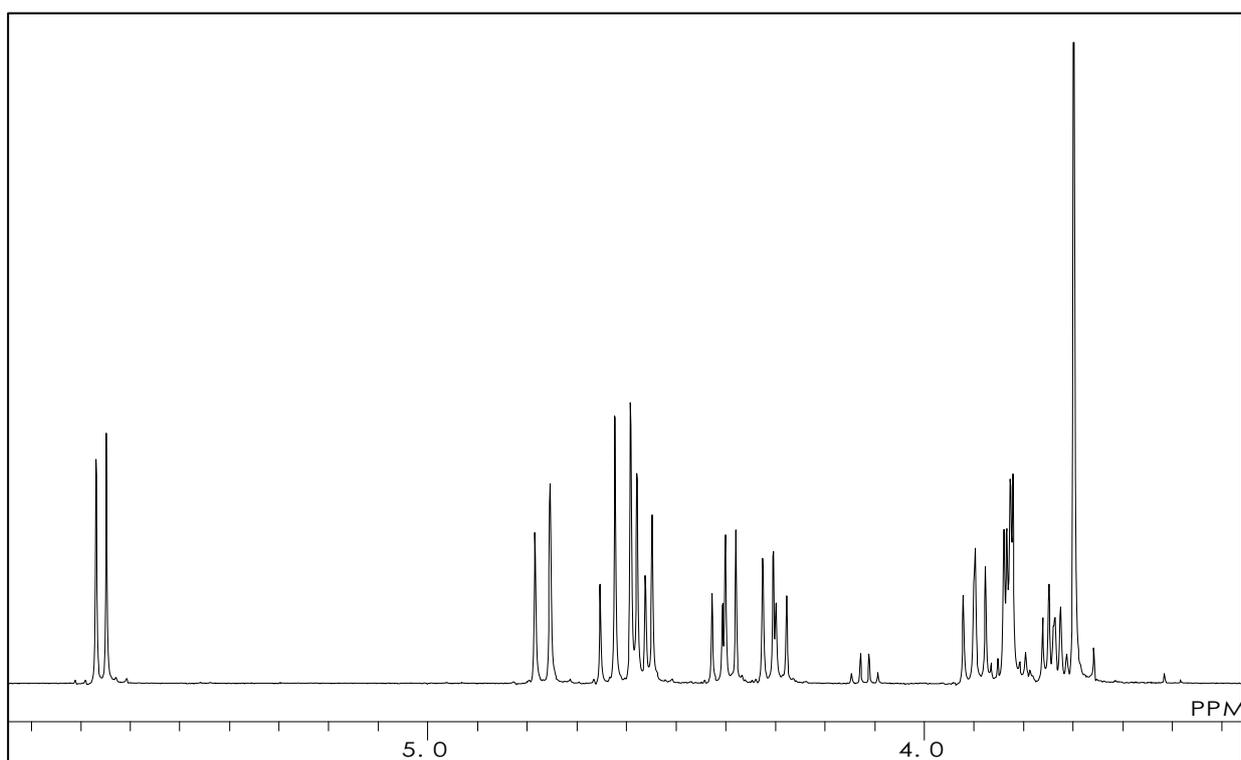
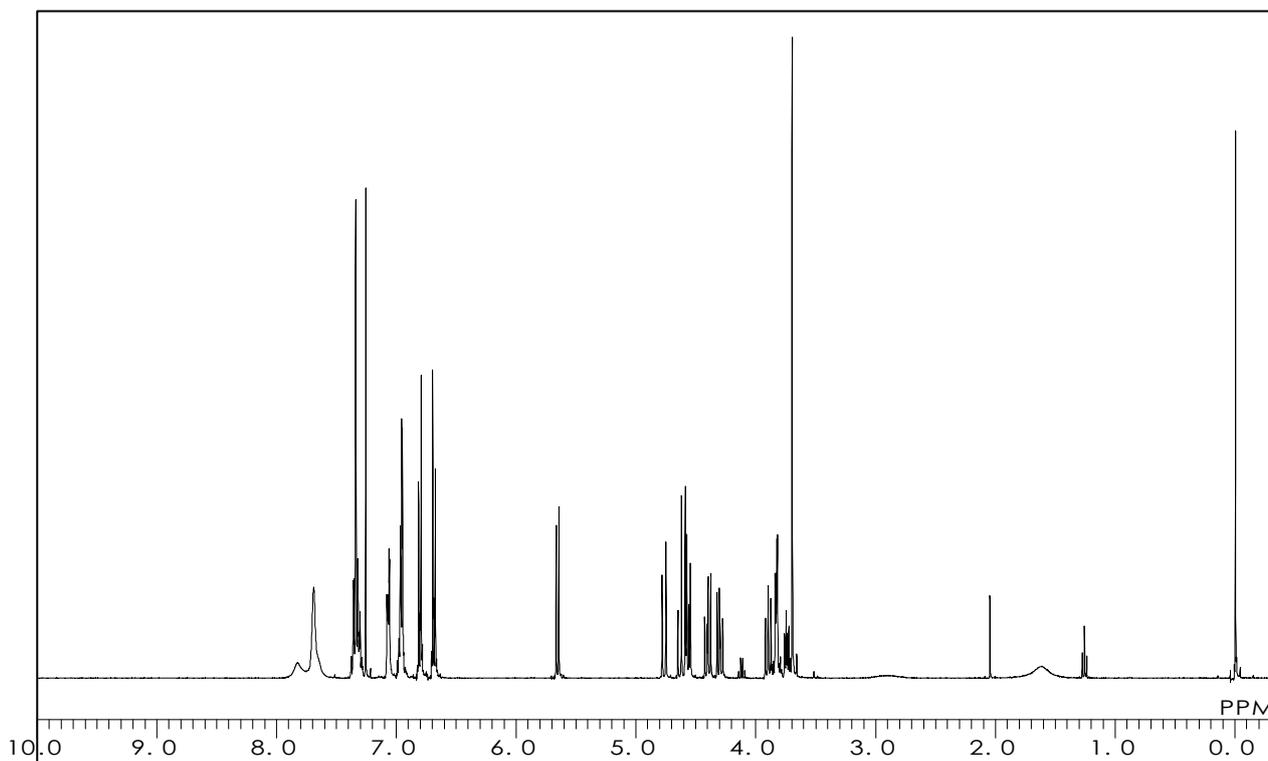
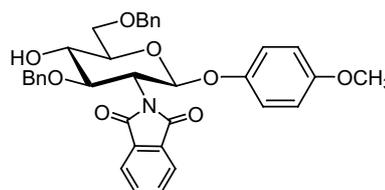
4-Methoxyphenyl 3,6-Di-O-benzyl-2-deoxy-2-phthalimido- β -D-glucopyranoside

$C_{35}H_{33}NO_8 = 595.65$ [129575-89-9]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.4 °C



M1480

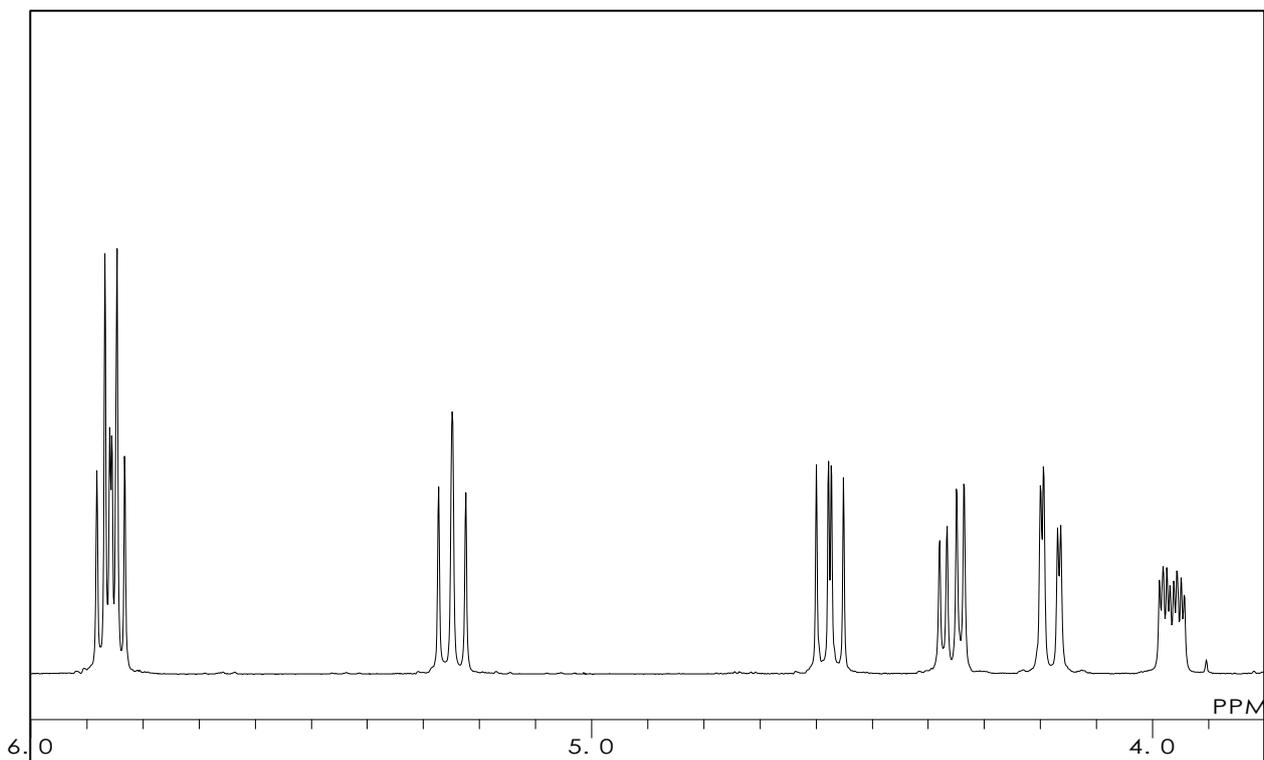
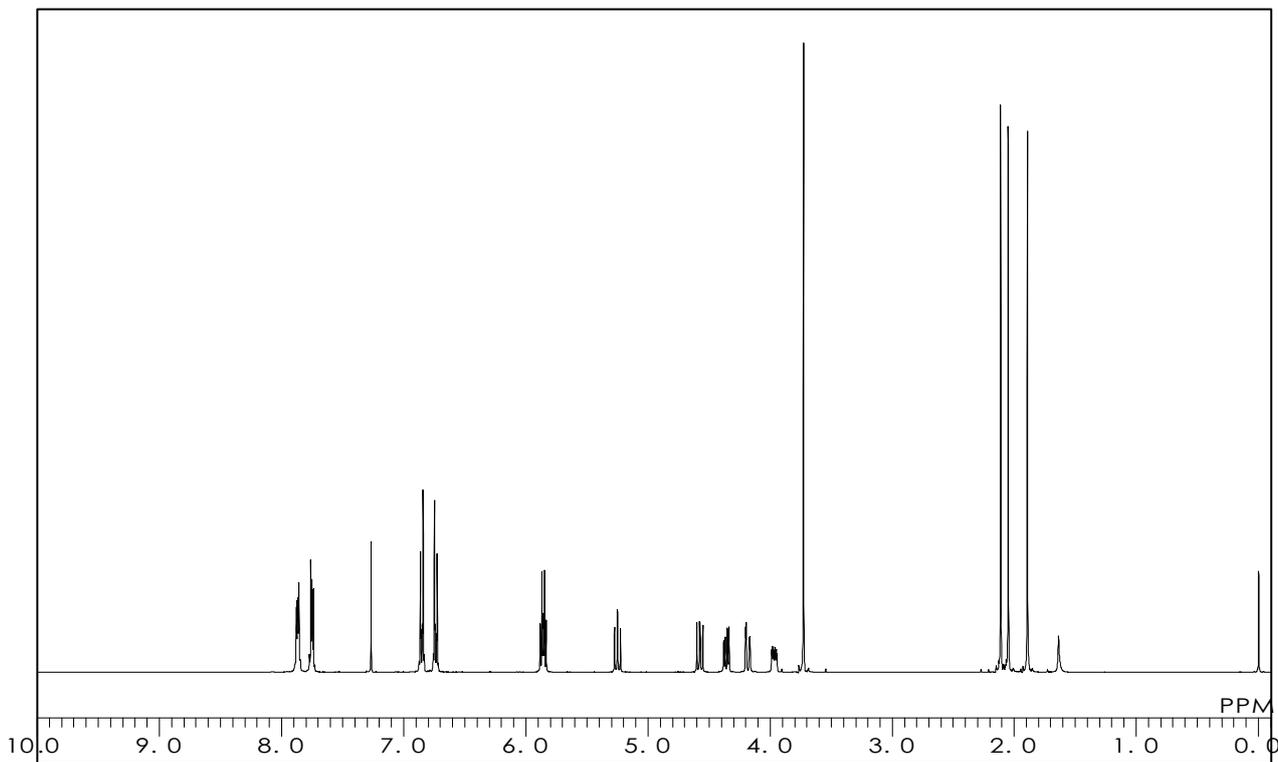
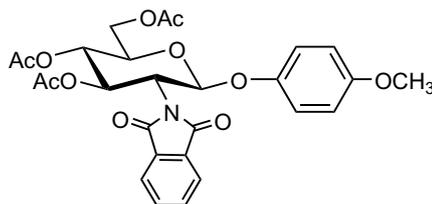
4-Methoxyphenyl 3,4,6-Tri-O-acetyl-2-deoxy-2-phthalimido- β -D-glucopyranoside

$C_{27}H_{27}NO_{11}$ = 541.51 [138906-41-9]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1649

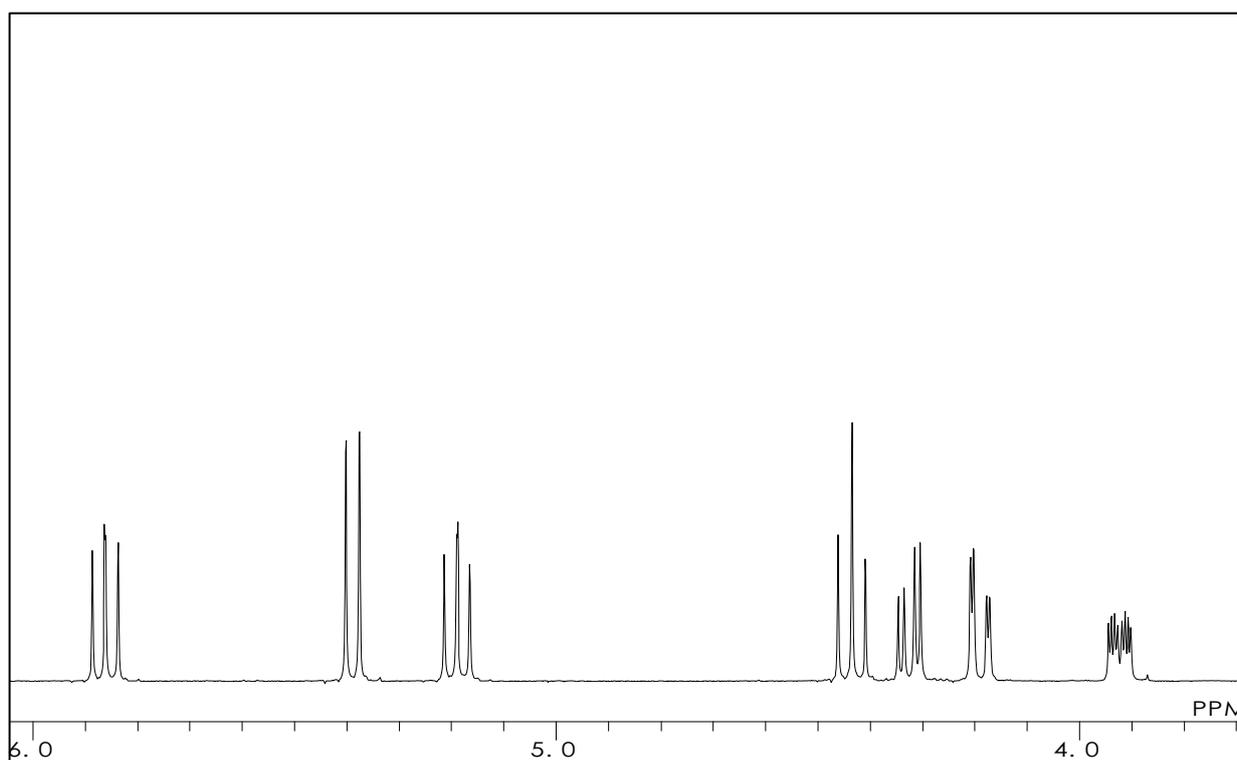
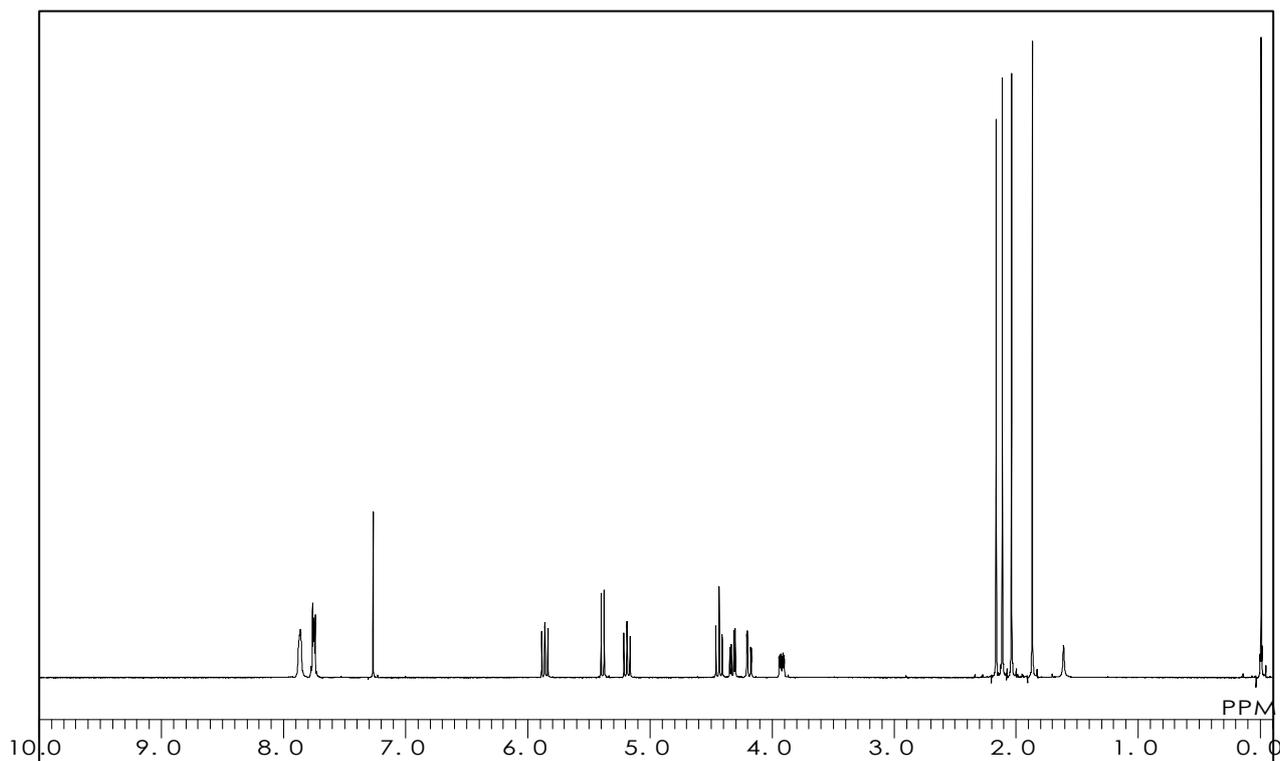
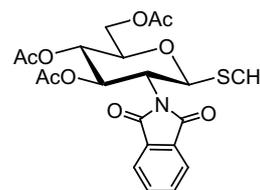
Methyl 3,4,6-Tri-O-acetyl-2-deoxy-2-phthalimido-1-thio- β -D-glucopyranoside

$C_{21}H_{23}NO_9S = 465.47$ [79528-48-6]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.2 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

P1762

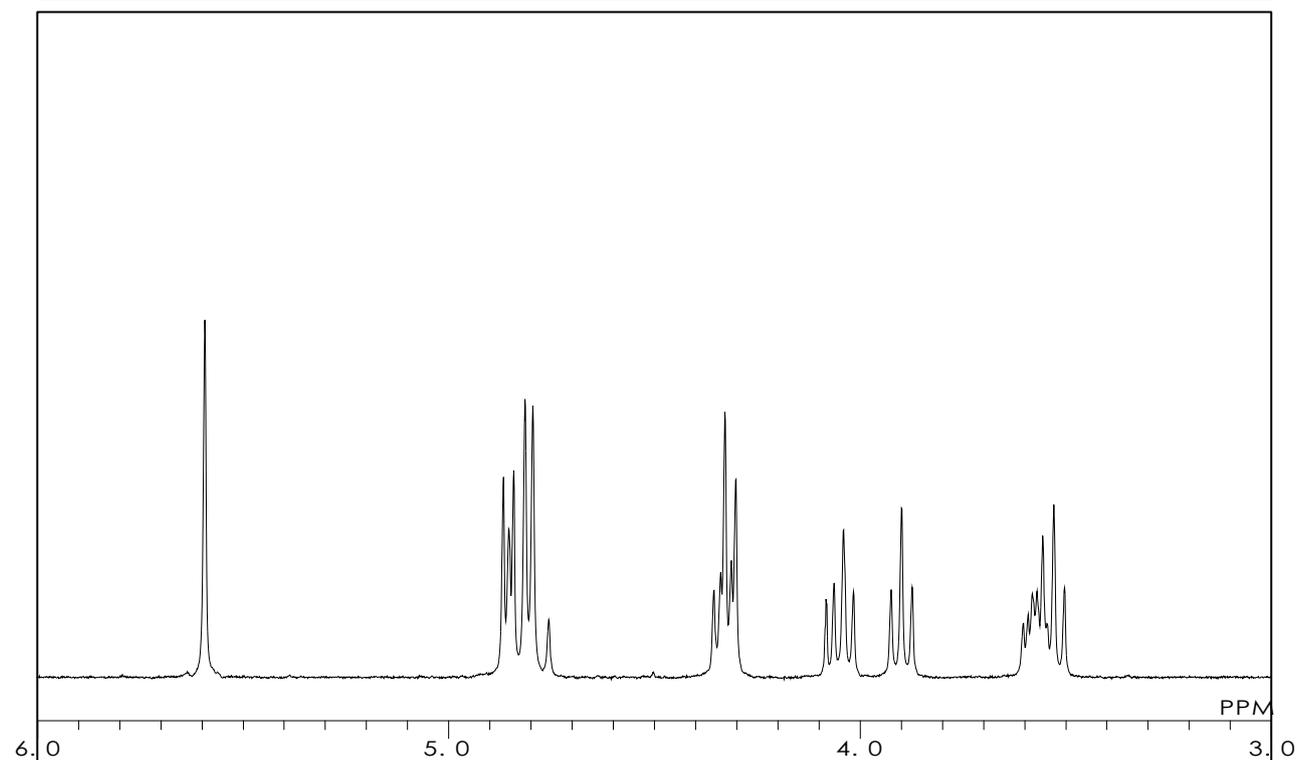
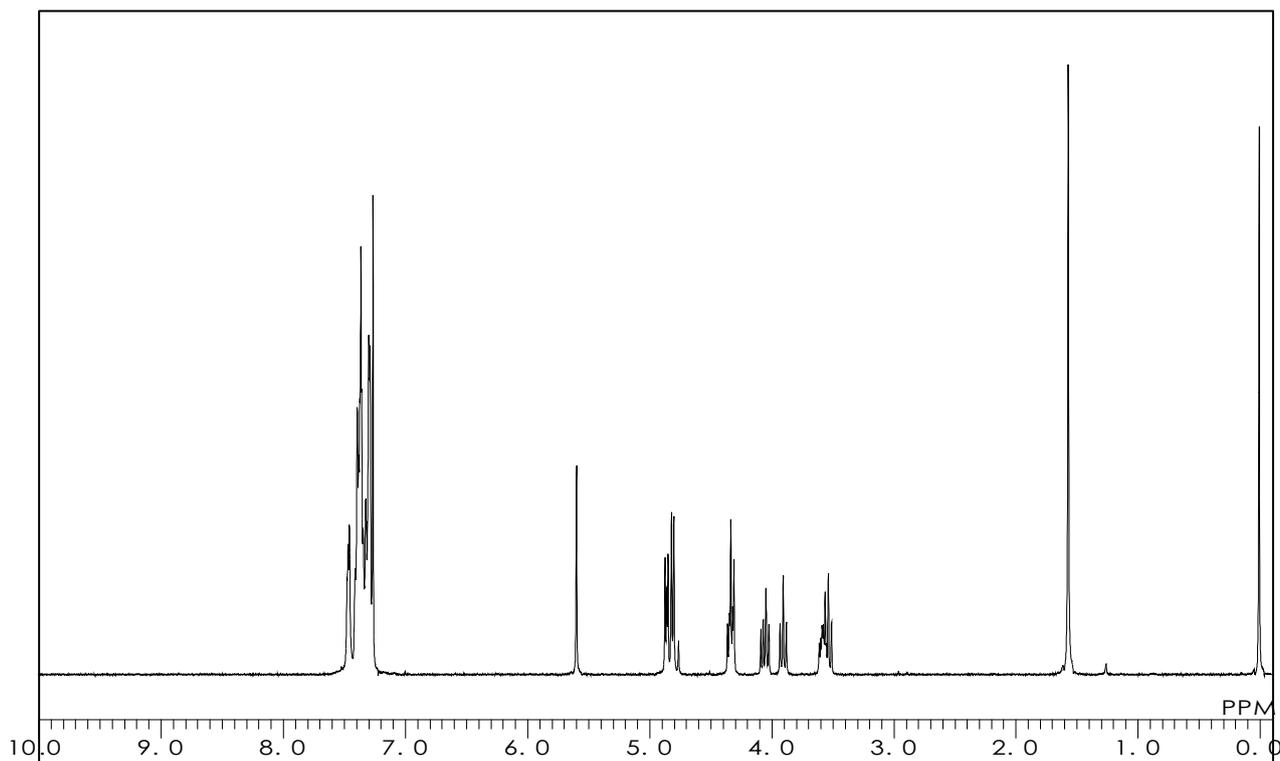
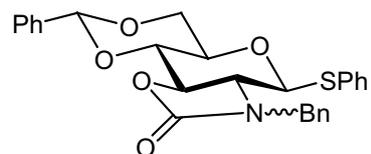
Phenyl N-Benzyl-2-amino-4,6-O-benzylidene-2-N,3-O-carbonyl-2-deoxy-1-thio-β-D-glucopyranoside

C₂₇H₂₅NO₅S = 475.56 [910805-49-1]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 23.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T2196

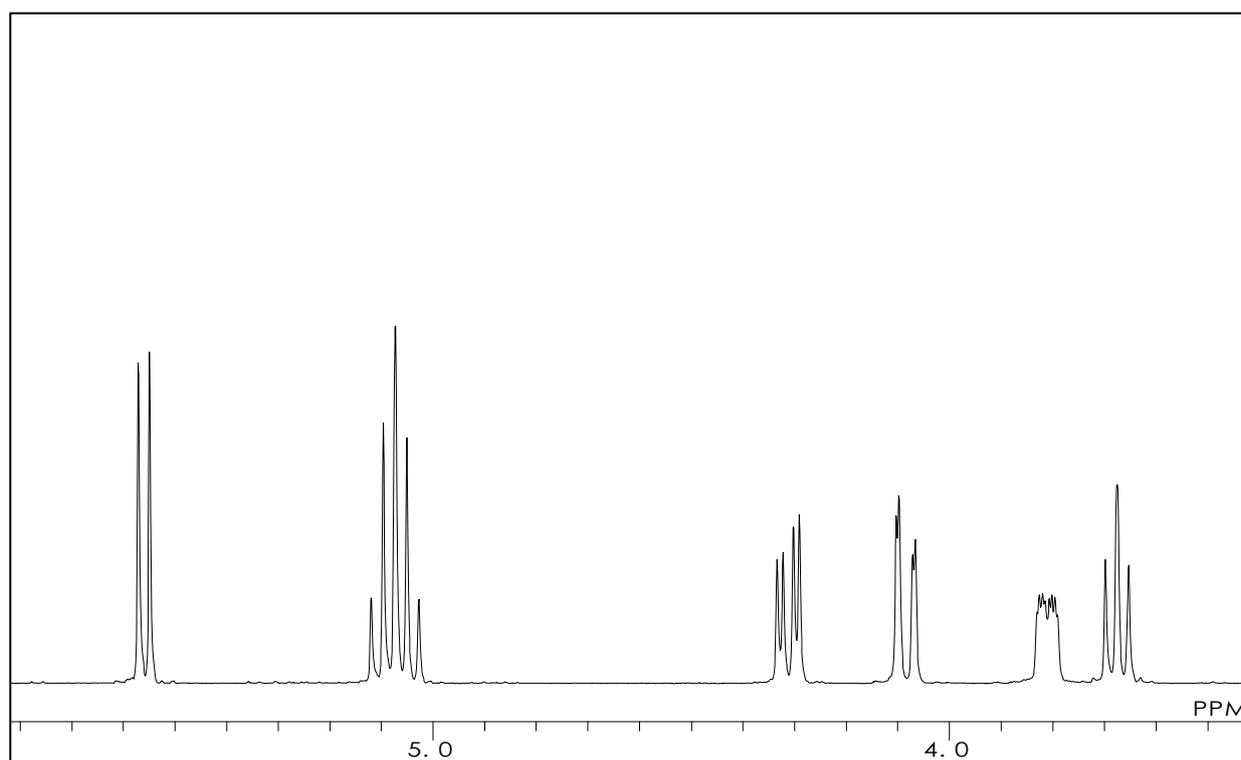
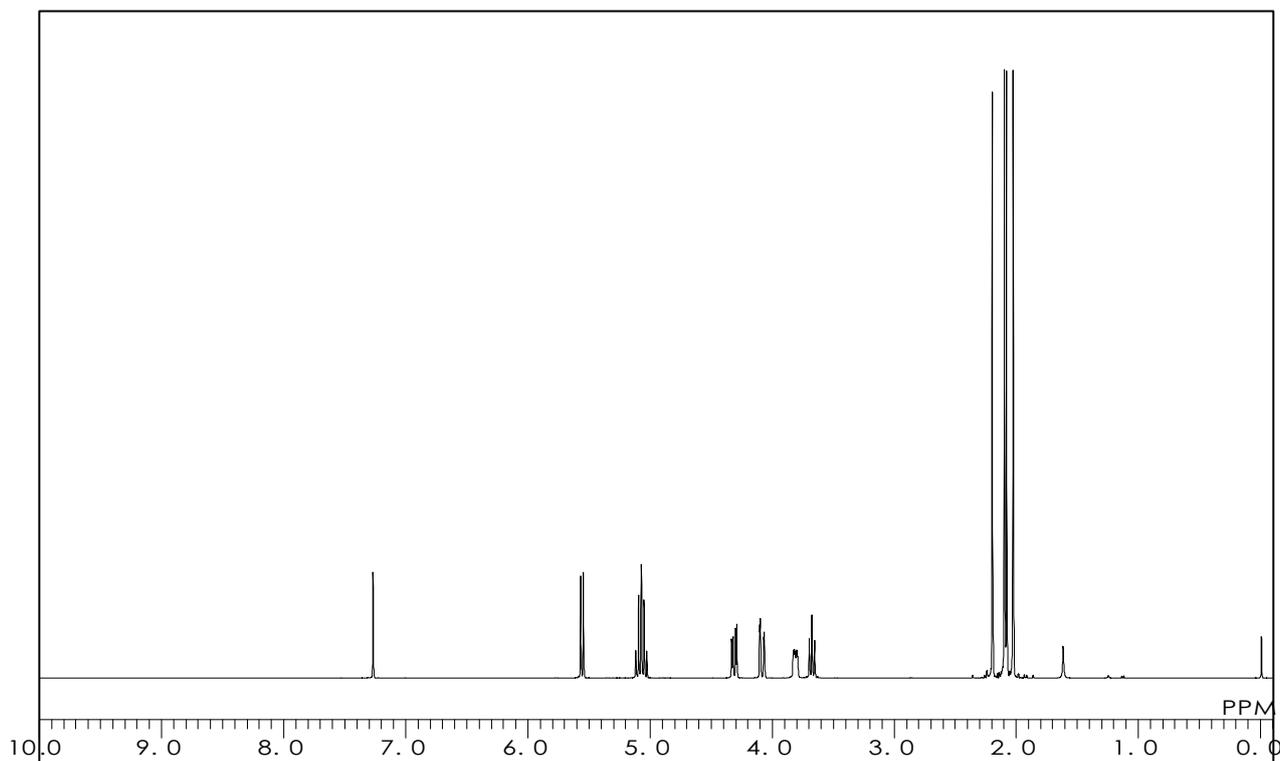
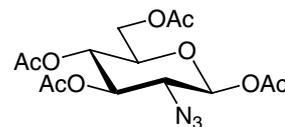
1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy-β-D-glucopyranose

$C_{14}H_{19}N_3O_9 = 373.32$ [80321-89-7]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 18.9 °C



T2047

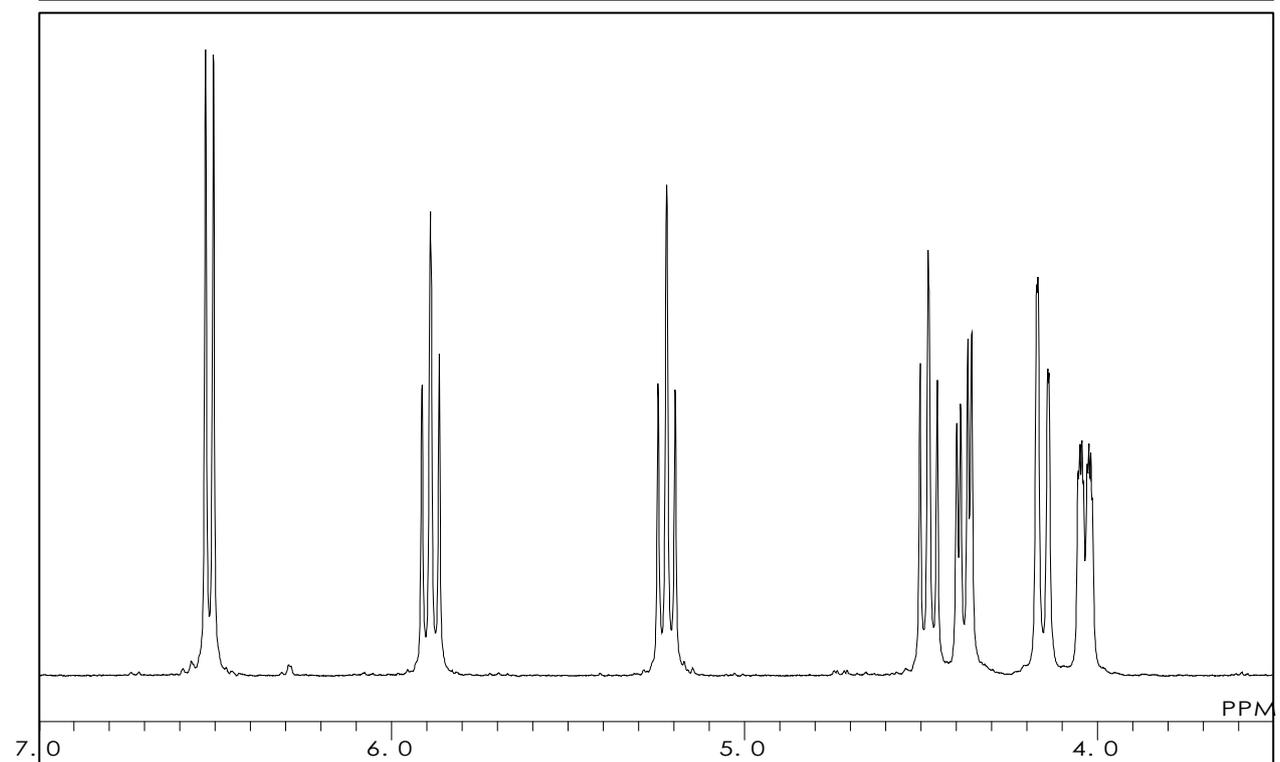
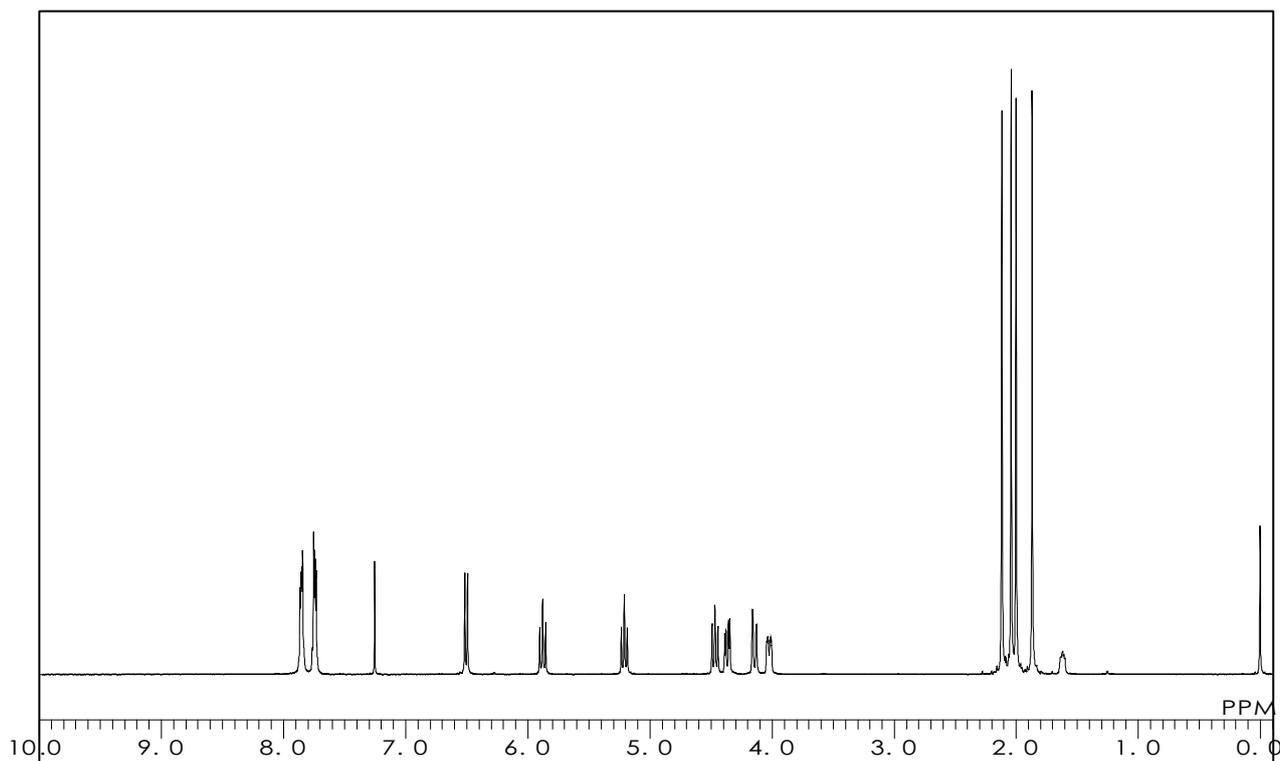
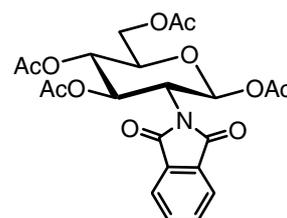
1,3,4,6-Tetra-O-acetyl-2-deoxy-2-phthalimido-β-D-glucopyranose

C₂₂H₂₃NO₁₁ = 477.42 [10022-13-6]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1759

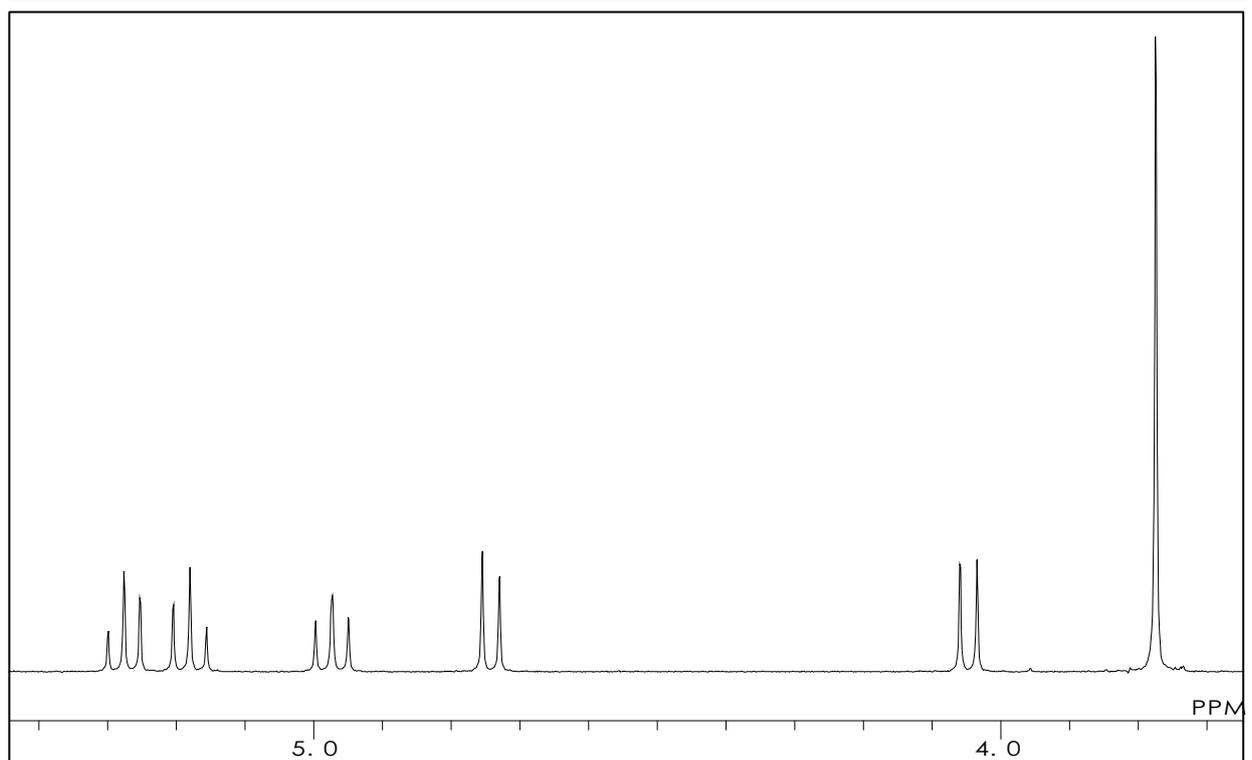
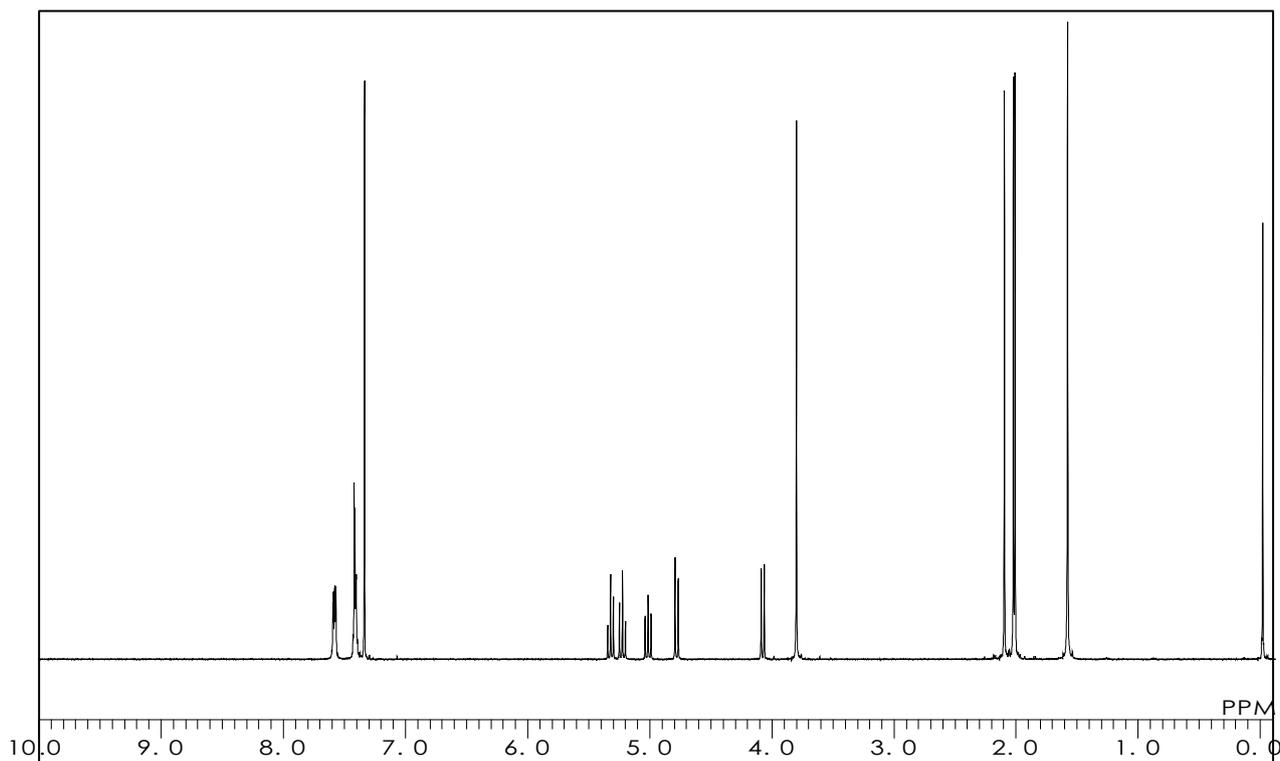
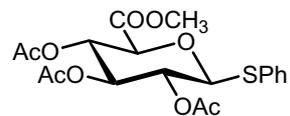
Methyl (Phenyl 2,3,4-Tri-O-acetyl-1-thio-β-D-glucopyranosid)uronate

C₁₉H₂₂O₉S = 426.44 [62812-42-4]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.0 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

M1868

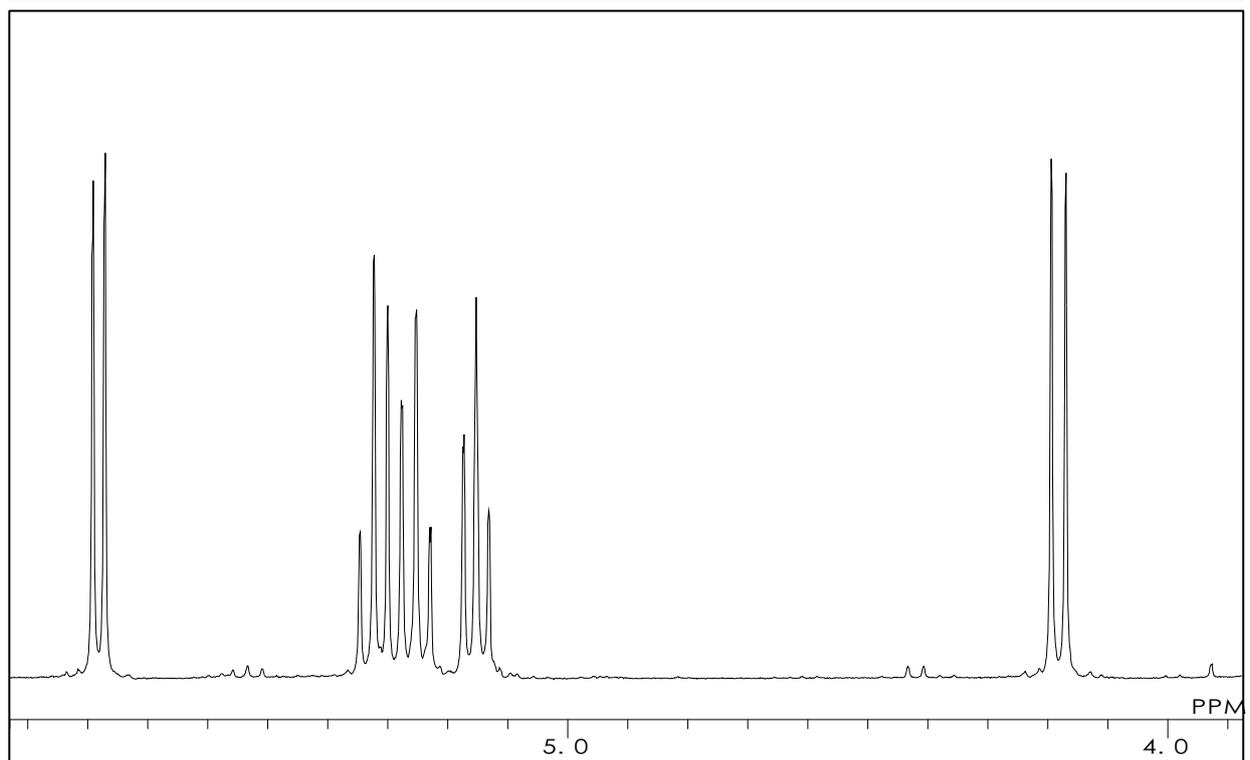
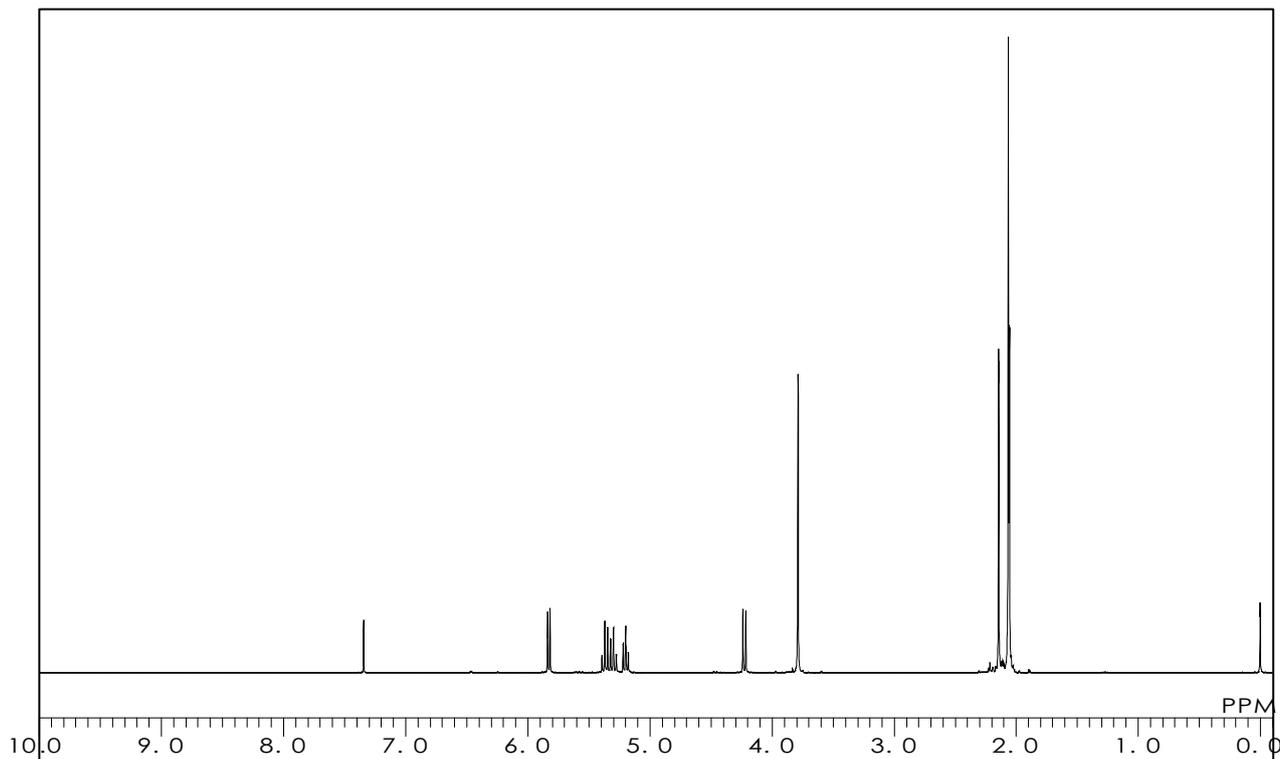
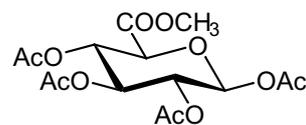
Methyl 1,2,3,4-Tetra-O-acetyl-β-D-glucuronate

C₁₅H₂₀O₁₁ = 376.31 [7355-18-2]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N0857

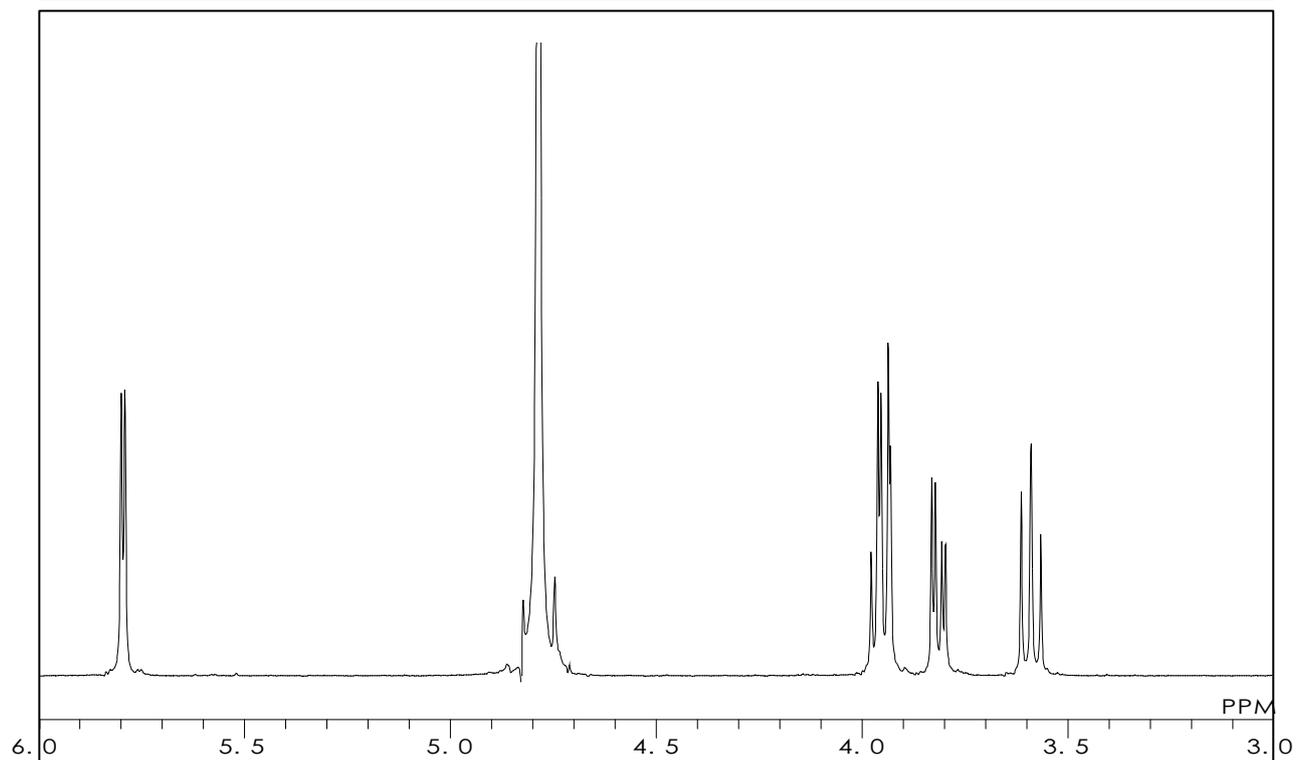
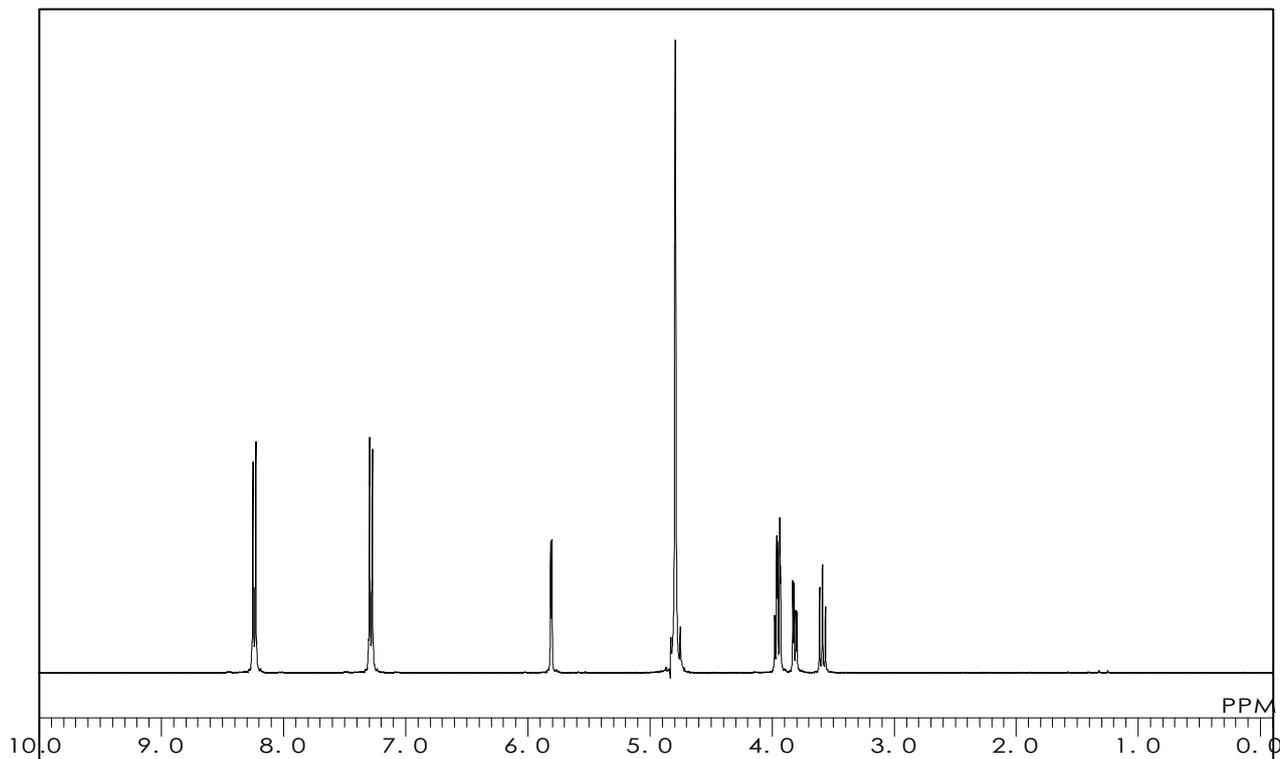
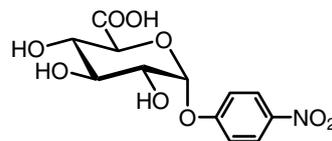
4-Nitrophenyl α -D-Glucuronide

$C_{12}H_{13}NO_9 = 315.23$ [71484-85-0]

Solvent : D_2O

External Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.9 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

I0629

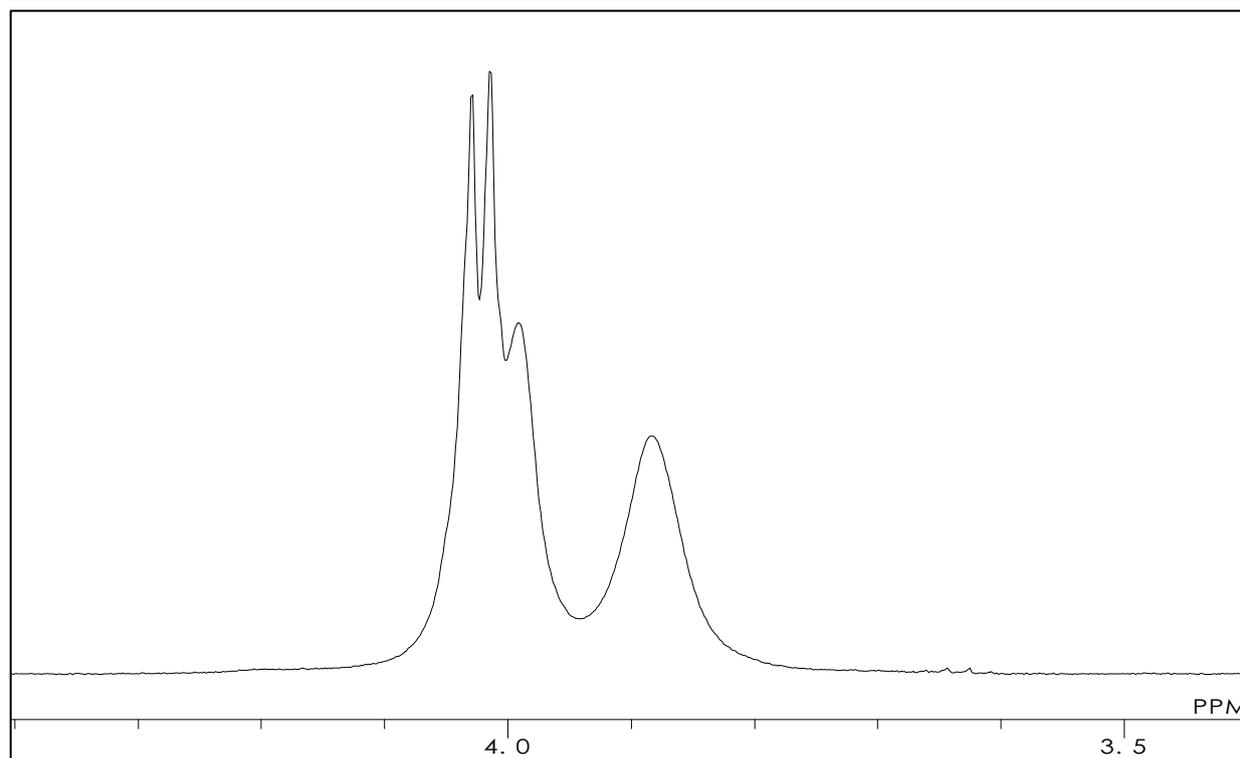
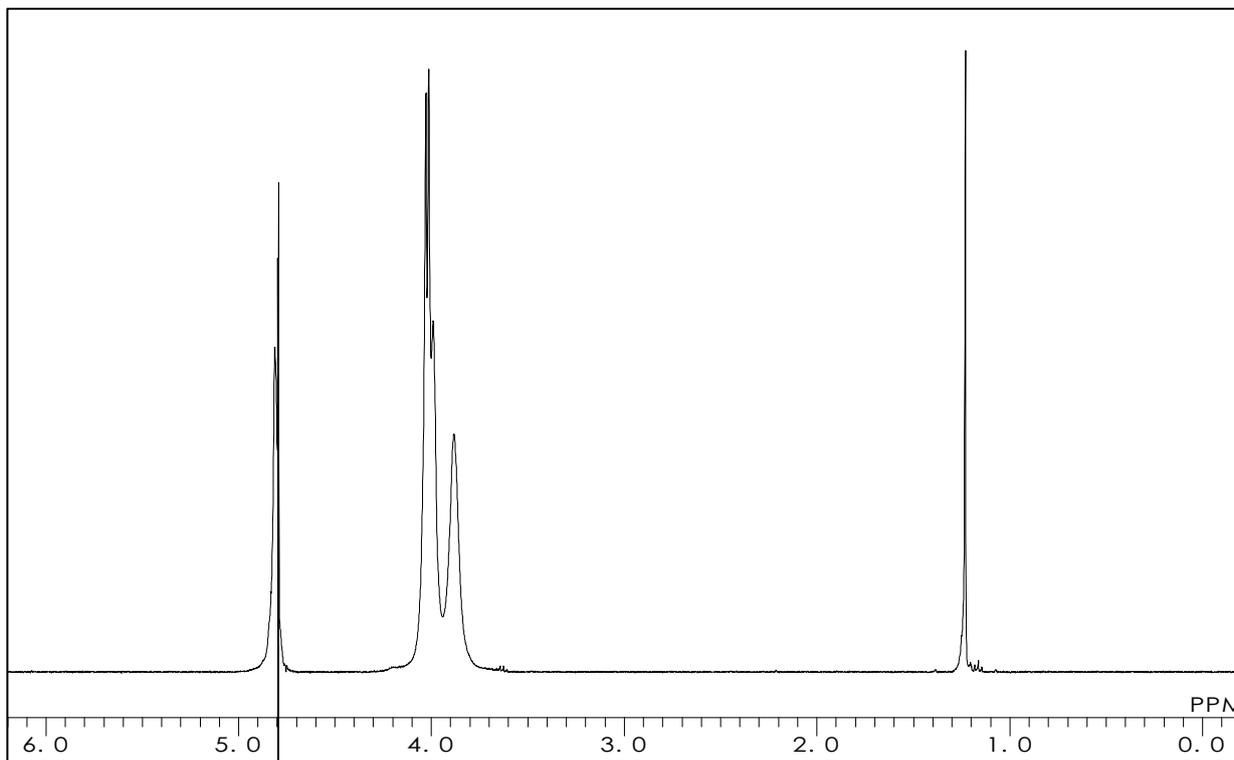
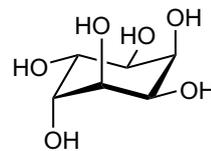
allo-Inositol

$C_6H_{12}O_6 = 180.16$ [643-10-7]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

I0628

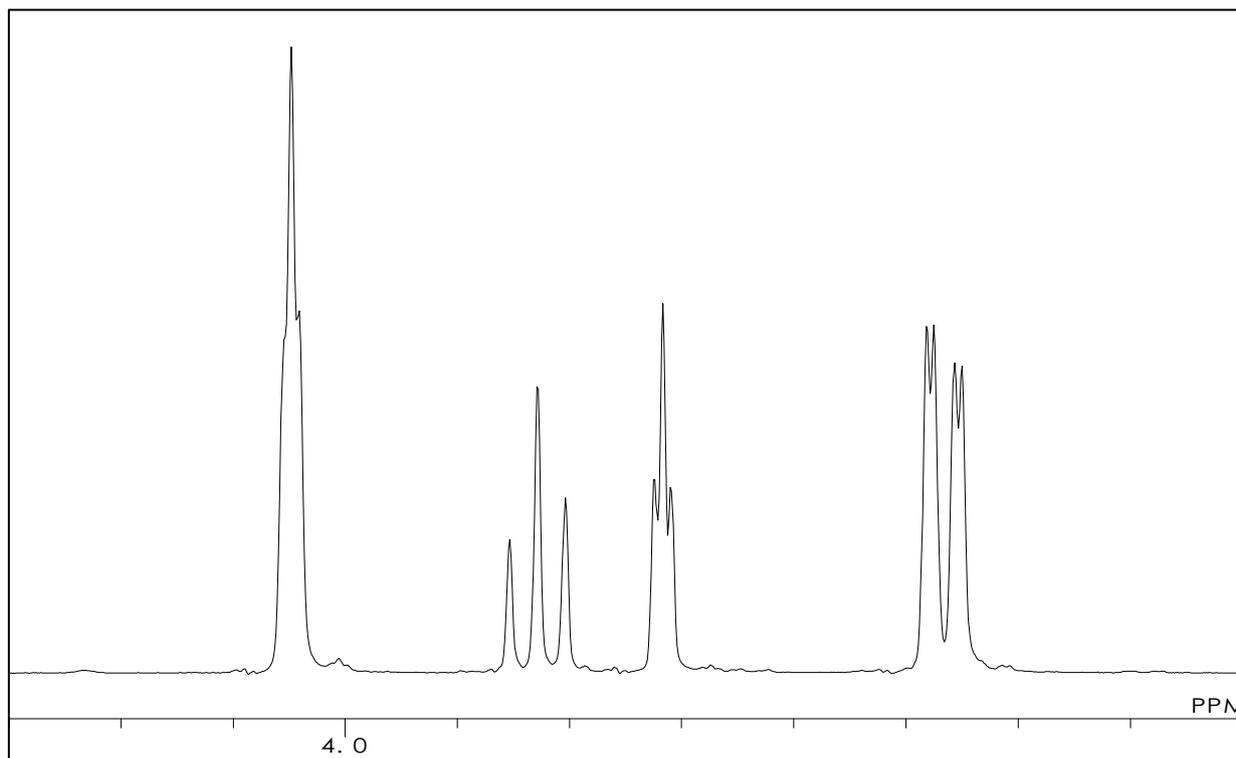
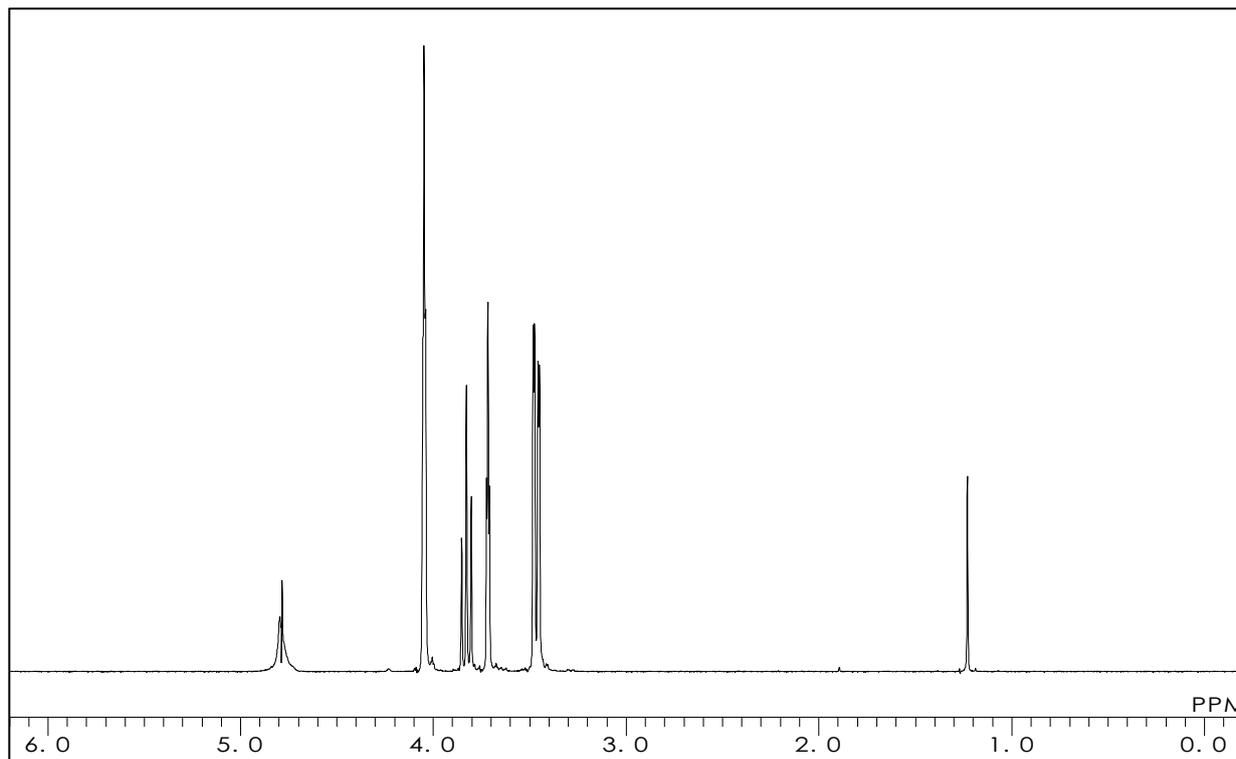
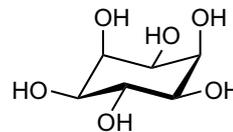
epi-Inositol

$C_6H_{12}O_6 = 180.16$ [488-58-4]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.0 °C



I0630

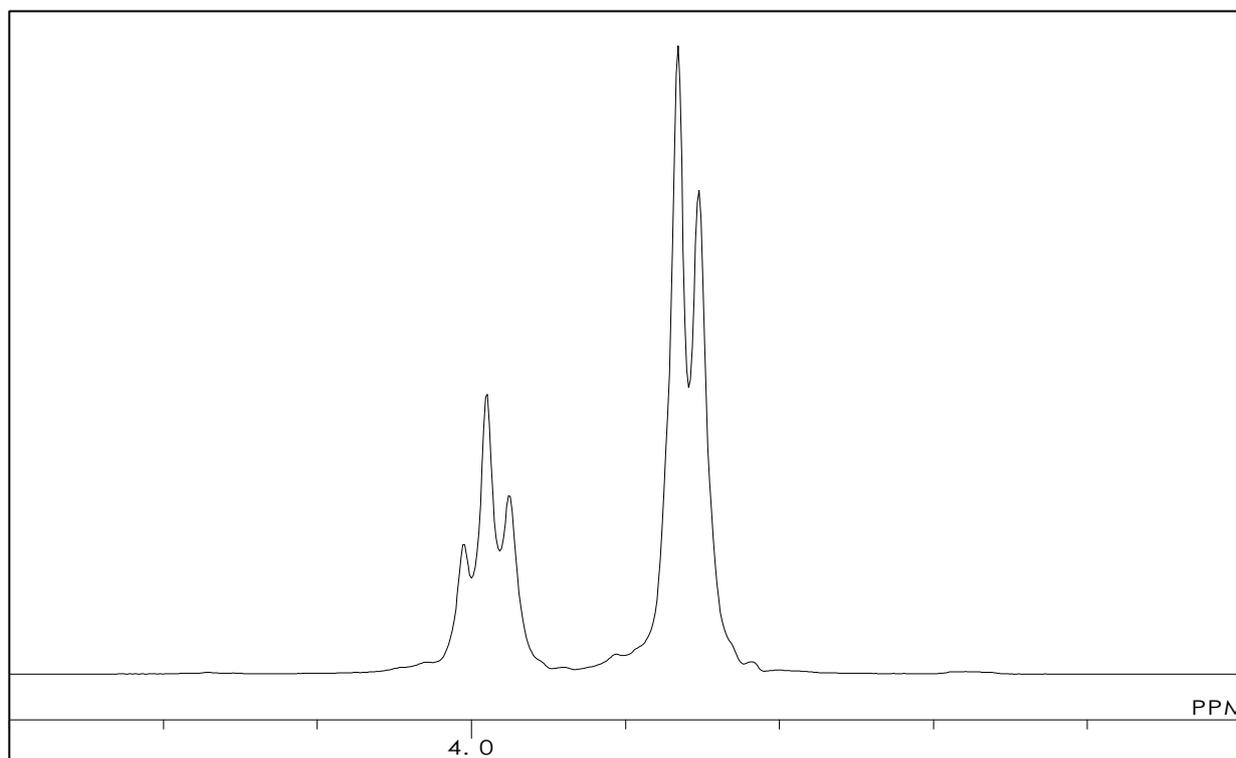
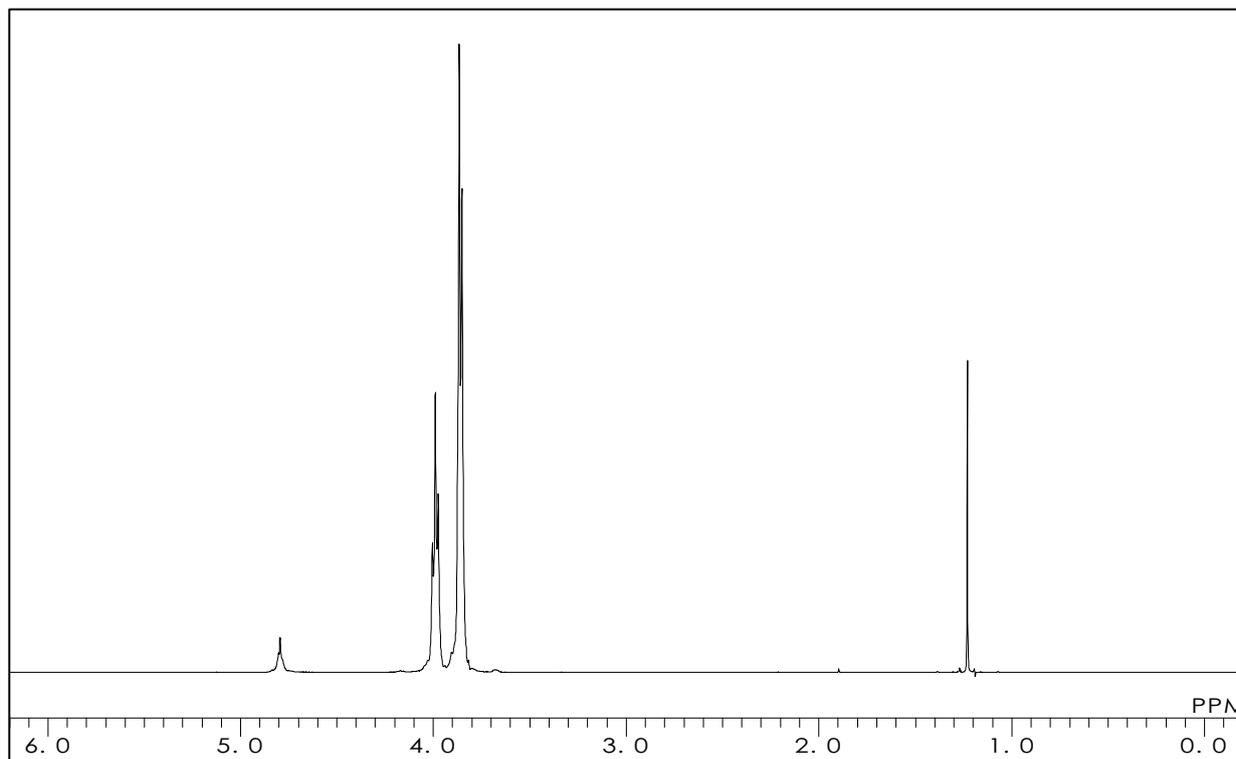
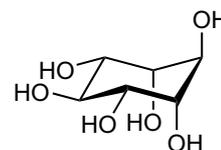
muco-Inositol

$C_6H_{12}O_6 = 180.16$ [41546-34-3]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

I0631

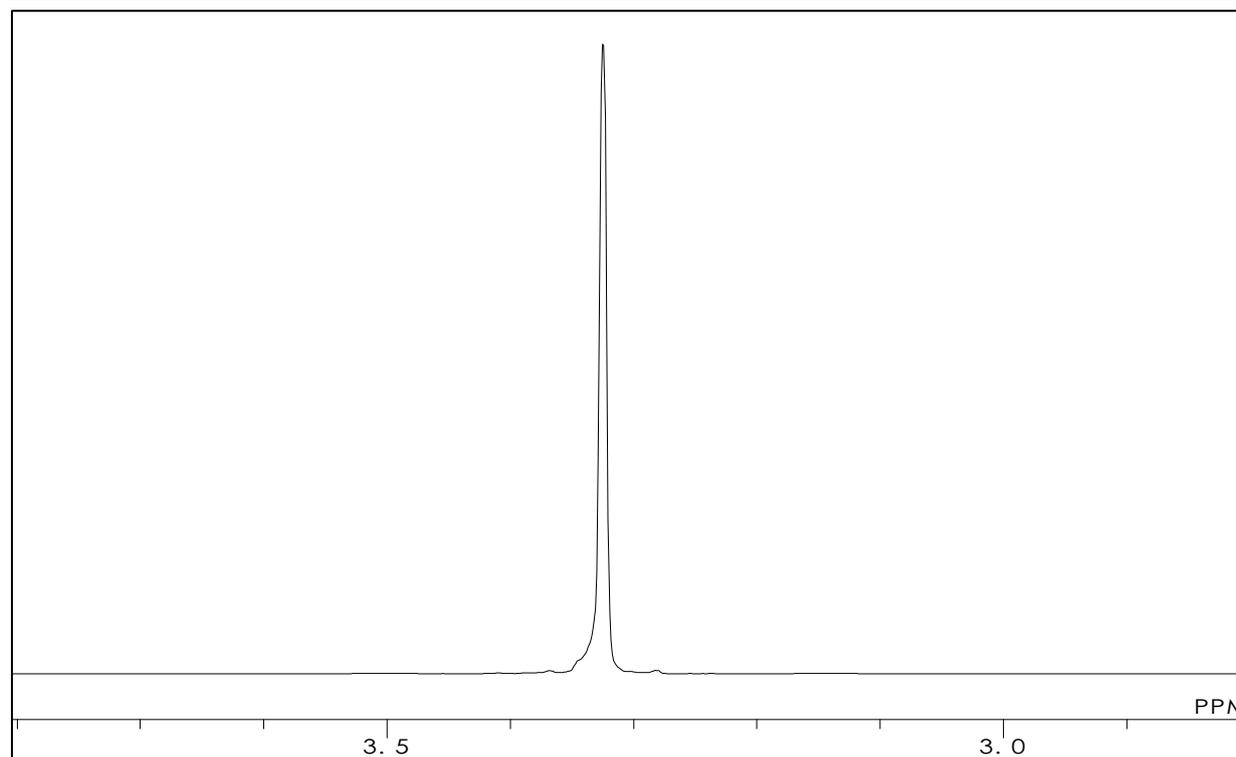
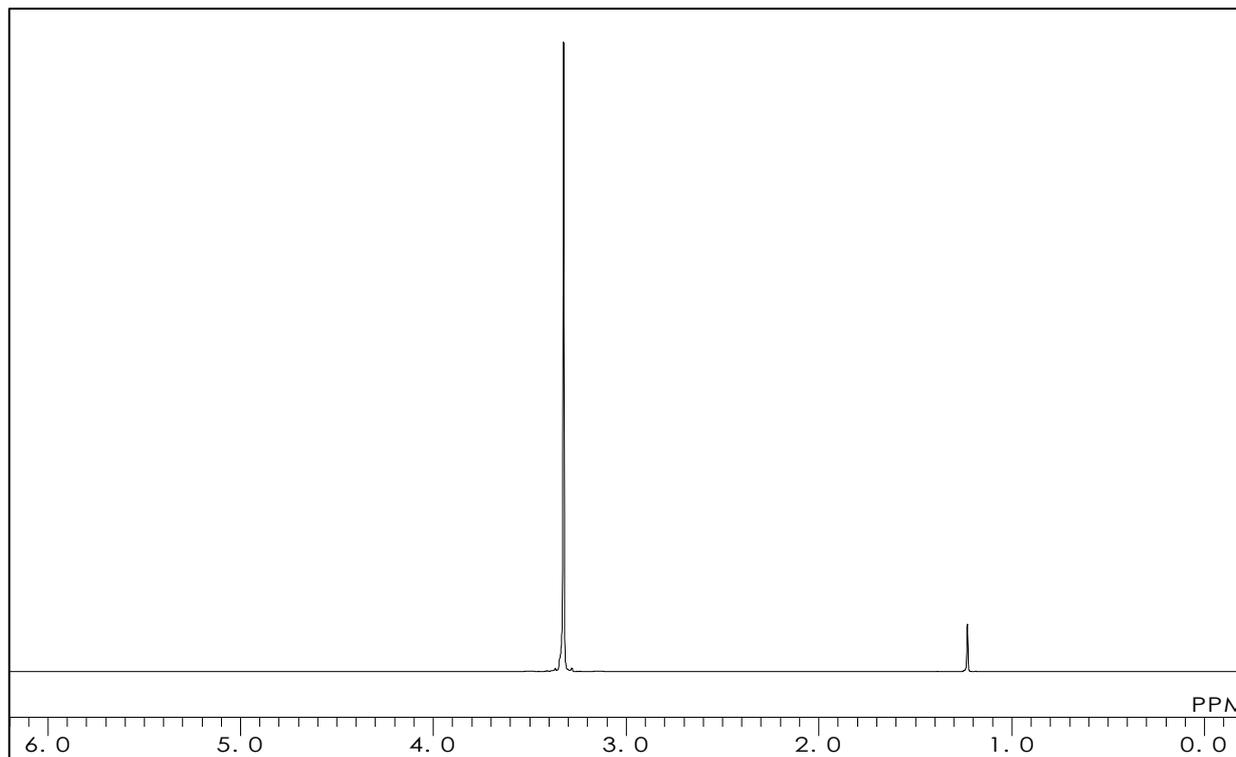
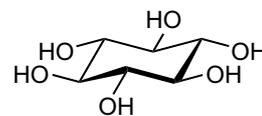
scyllo-Inositol

$C_6H_{12}O_6 = 180.16$ [488-59-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.0 °C



I0634

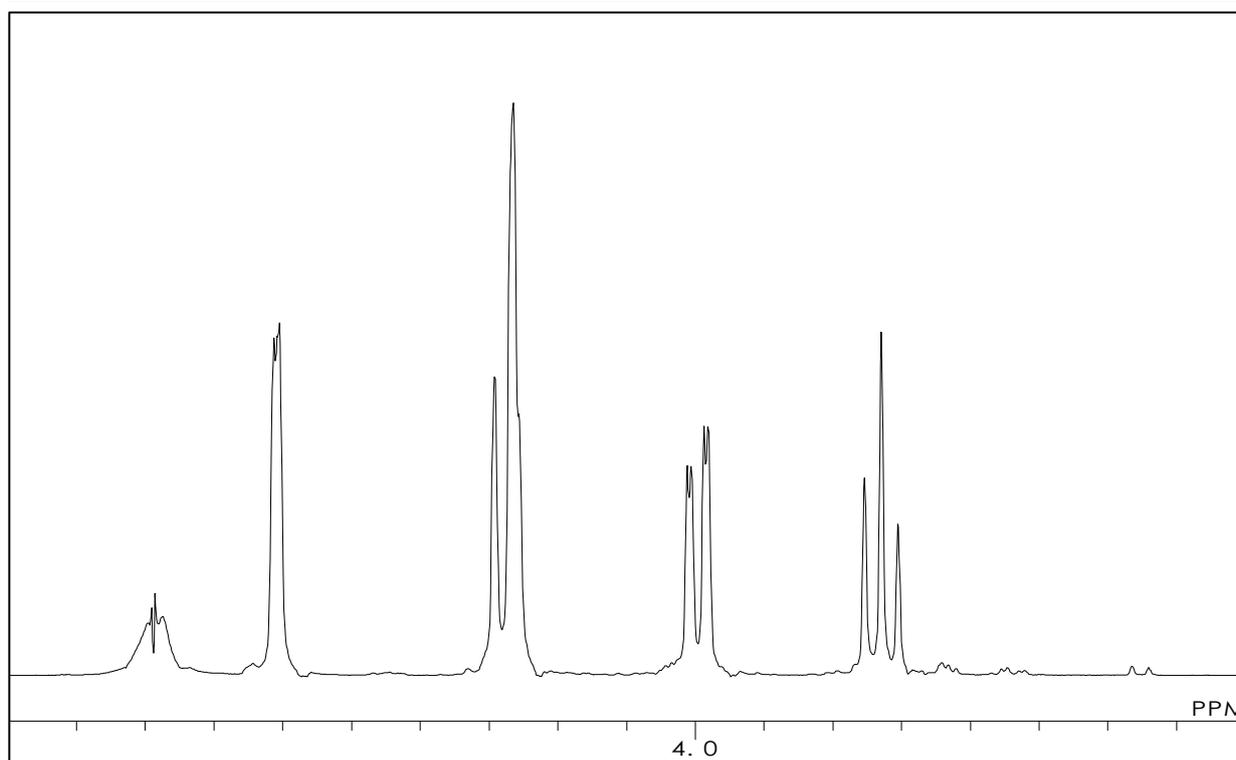
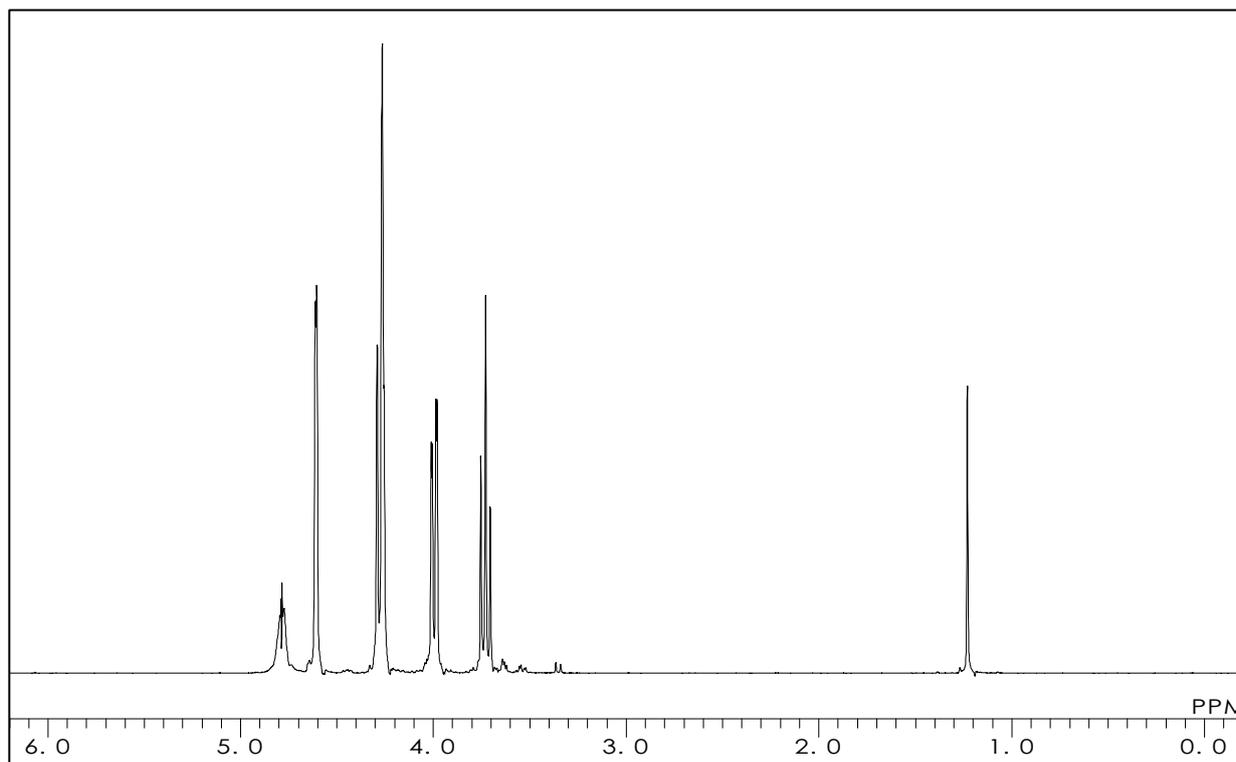
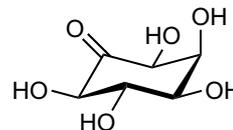
1L-*epi*-2-Inosose

$C_6H_{10}O_6 = 178.14$ [33471-33-9]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

Q0070

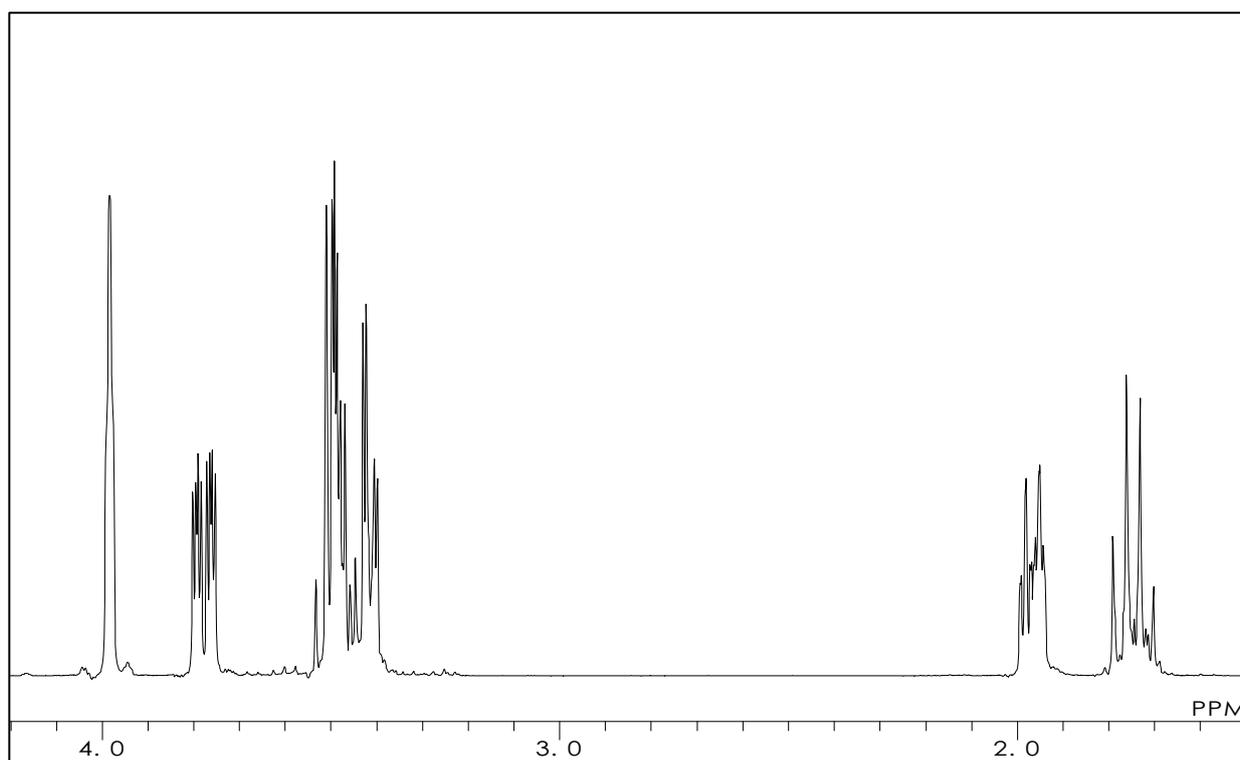
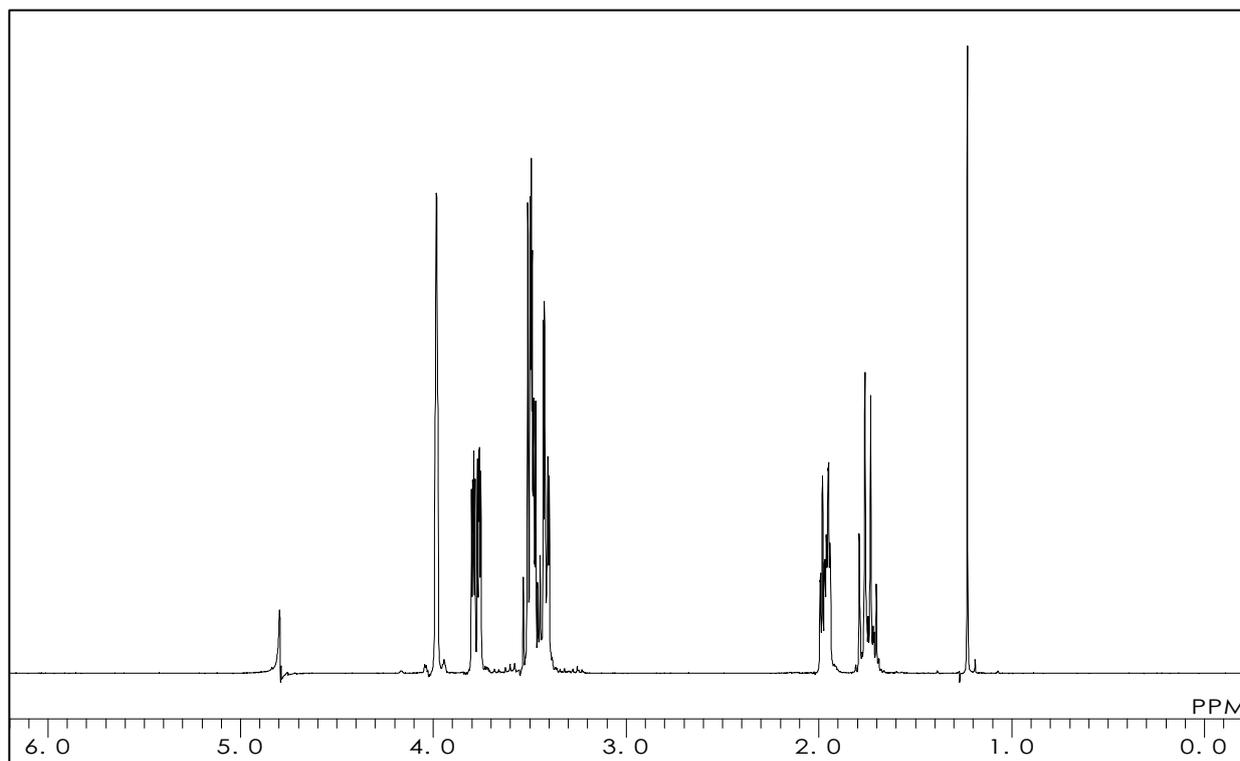
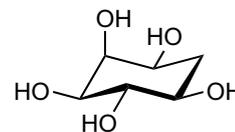
(+)-*epi*-Quercitol

$C_6H_{12}O_5 = 164.16$ [131435-06-8]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.0 °C



Q0071

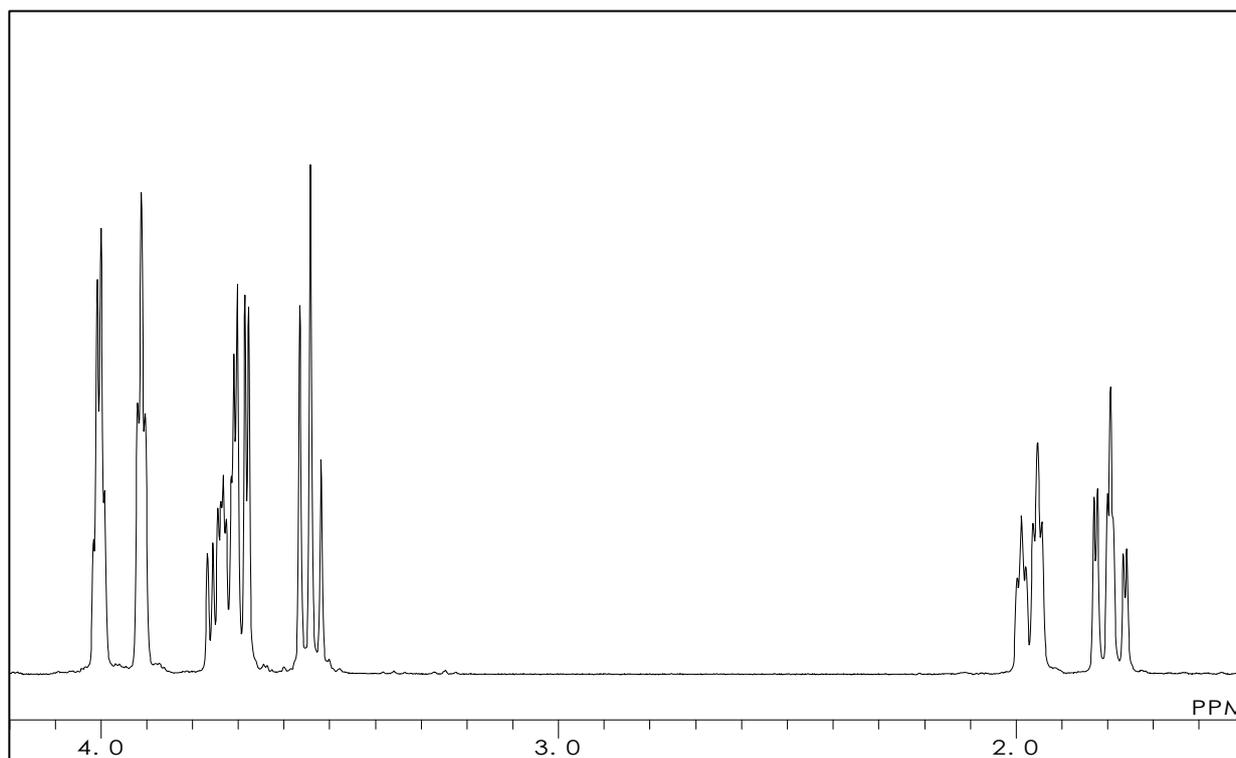
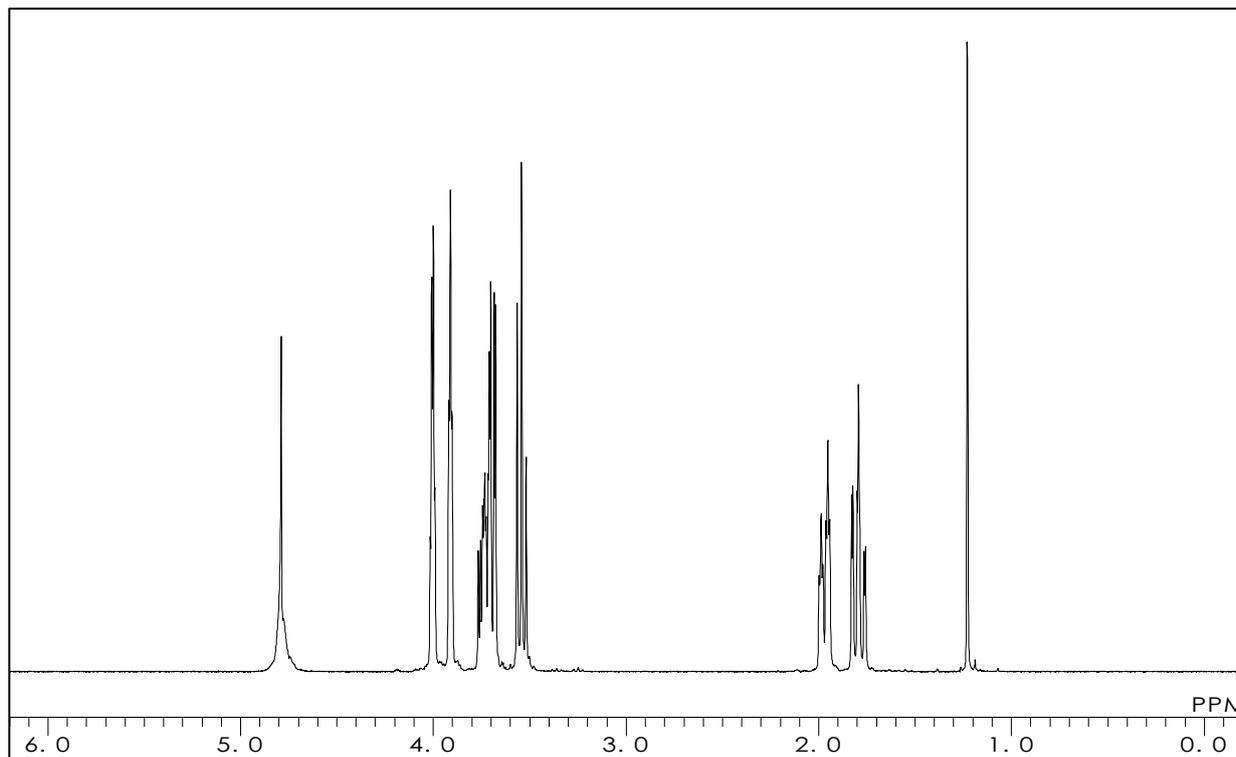
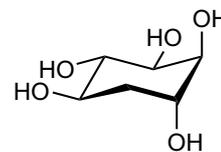
(+)-proto-Quercitol

$C_6H_{12}O_5 = 164.16$ [488-73-3]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.5 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

D5294

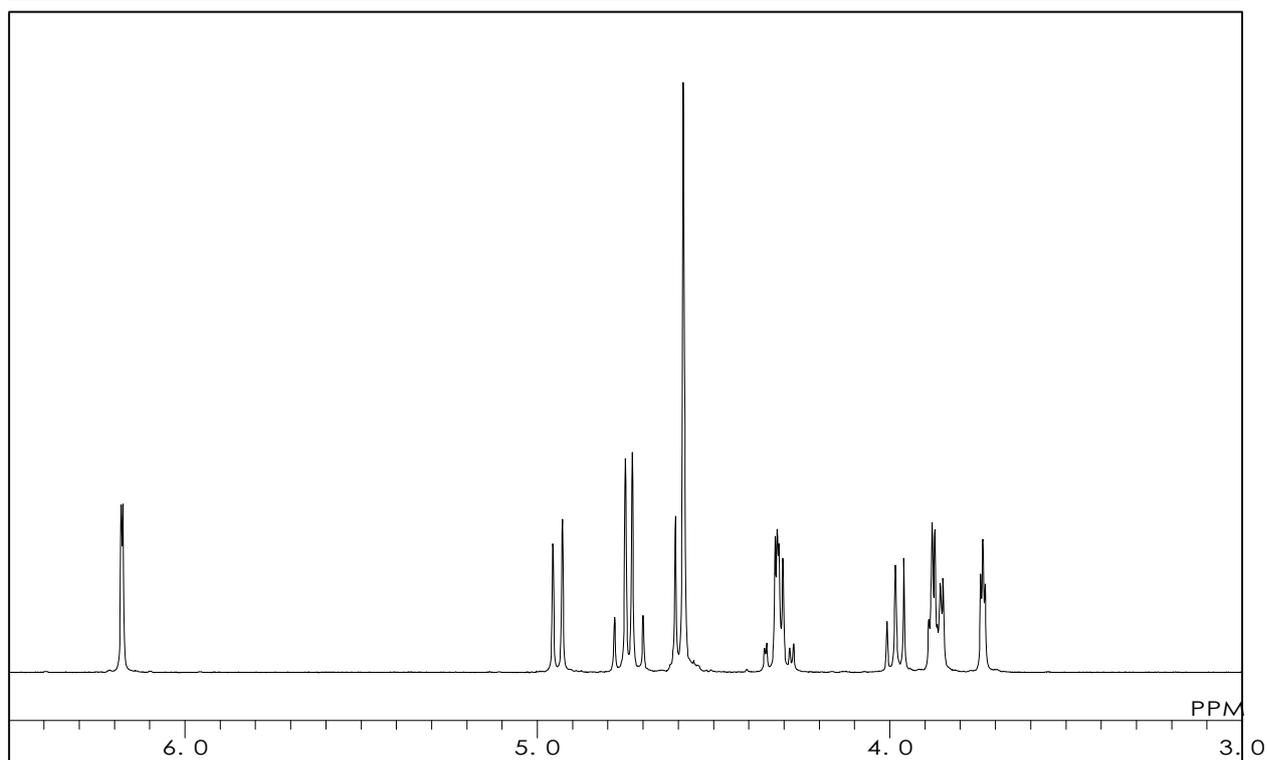
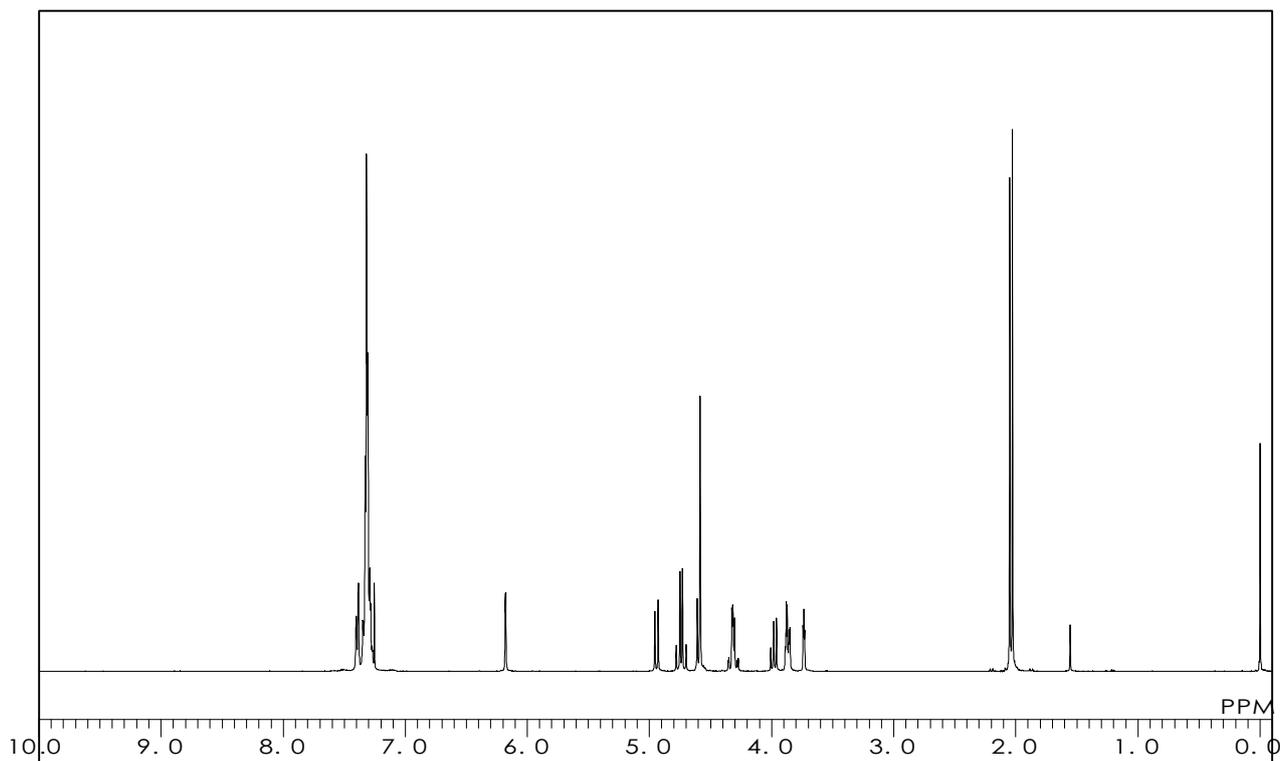
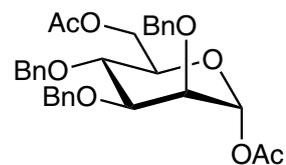
1,6-Di-O-acetyl-2,3,4-tri-O-benzyl- α -D-mannopyranose

$C_{31}H_{34}O_8 = 534.61$ [65556-30-1]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 27.1 °C



M2435

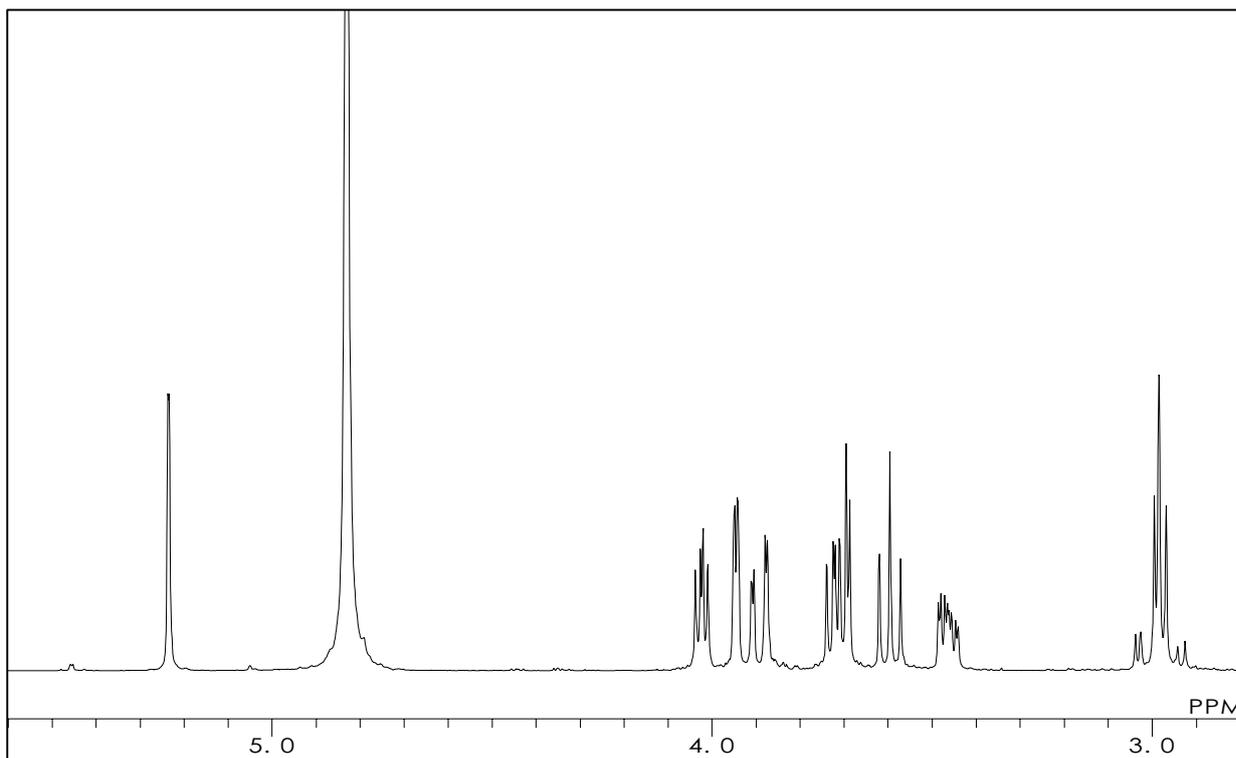
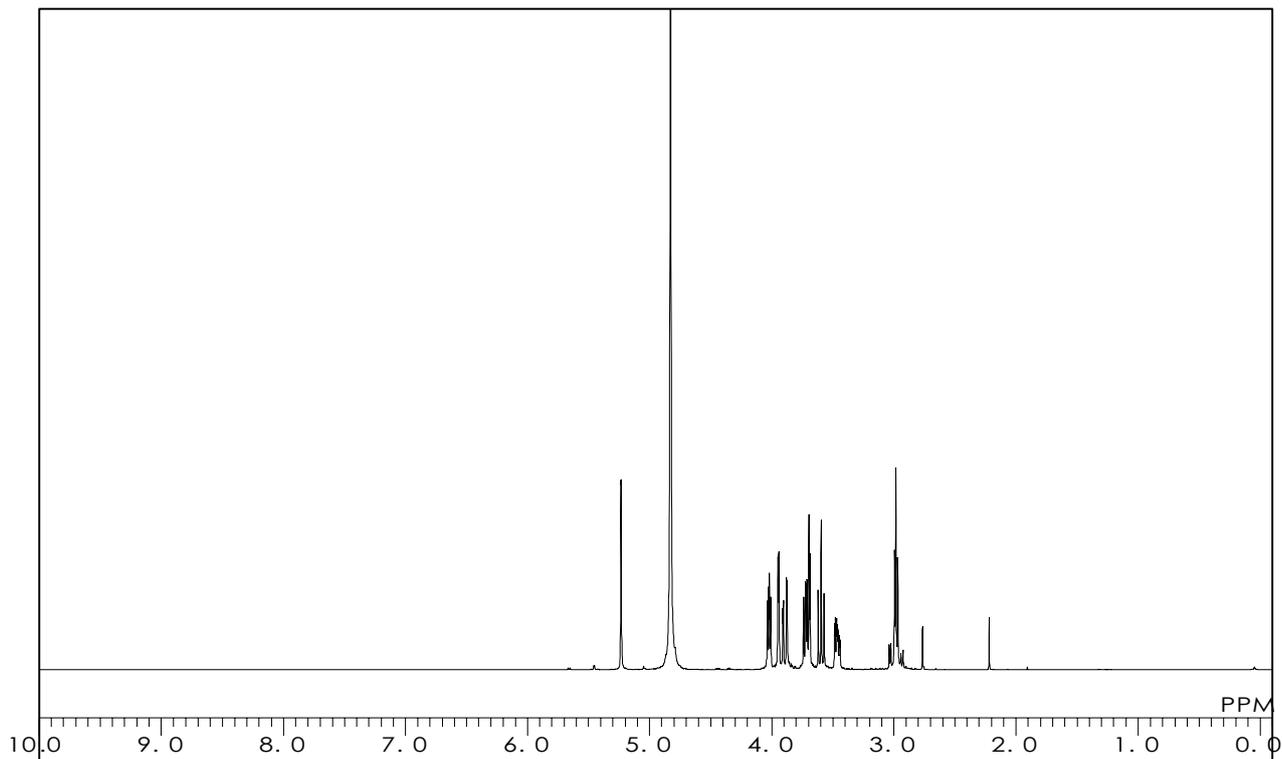
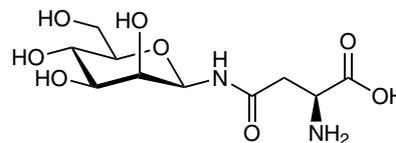
N^{ω} -(β -D-Mannopyranosyl)-L-asparagine

$C_{10}H_{18}N_2O_8 = 294.26$ [41355-52-6]

Solvent : D_2O

Internal Standard : Acetone (δ 2.22)

Measured Temperature : 19.6 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1646

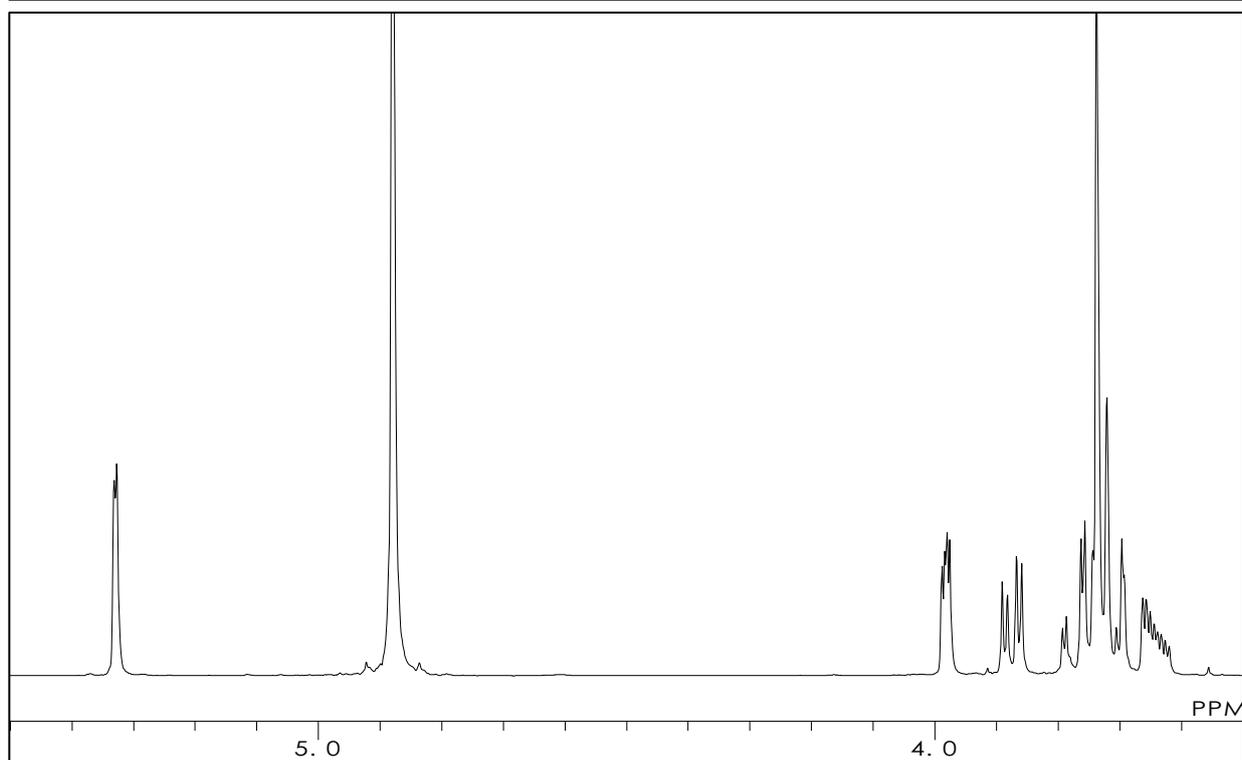
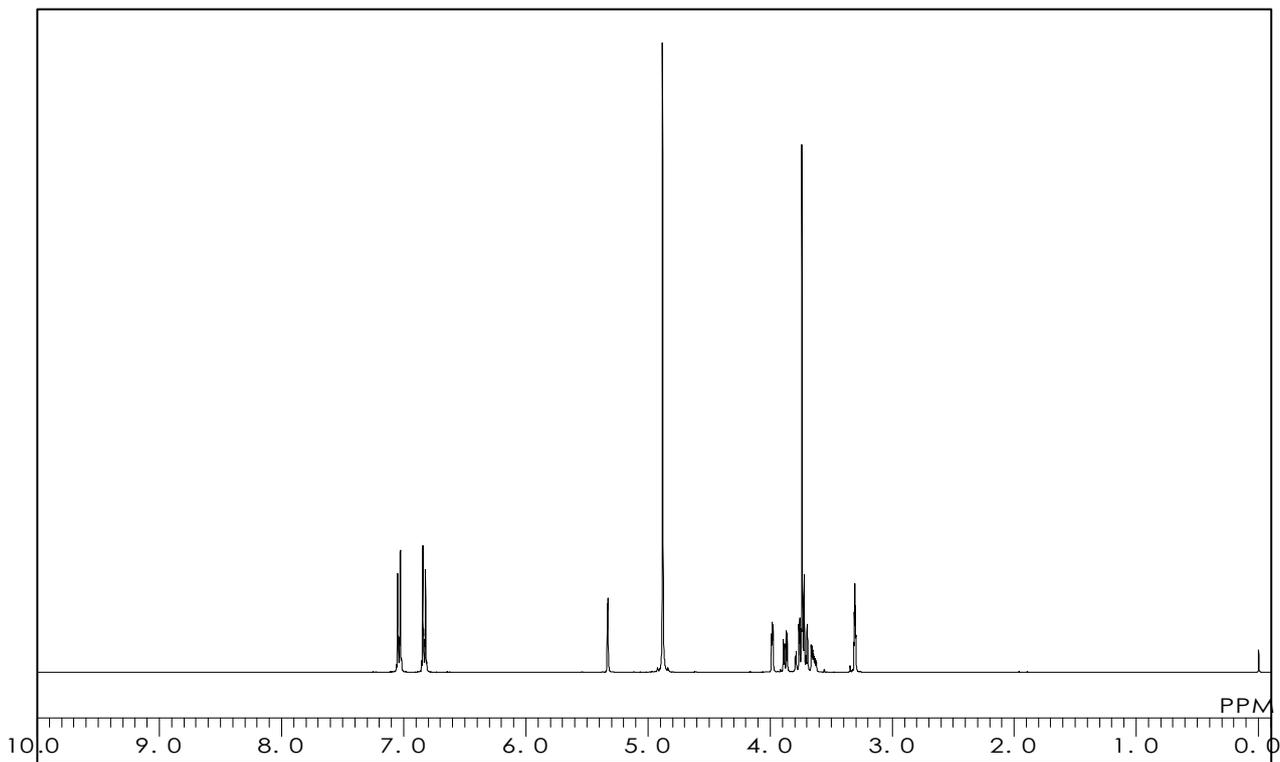
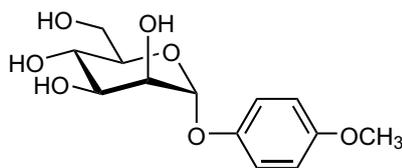
4-Methoxyphenyl α -D-Mannopyranoside

$C_{13}H_{18}O_7 = 286.28$ [28541-75-5]

Solvent : CD_3OD

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.2 °C



M1647

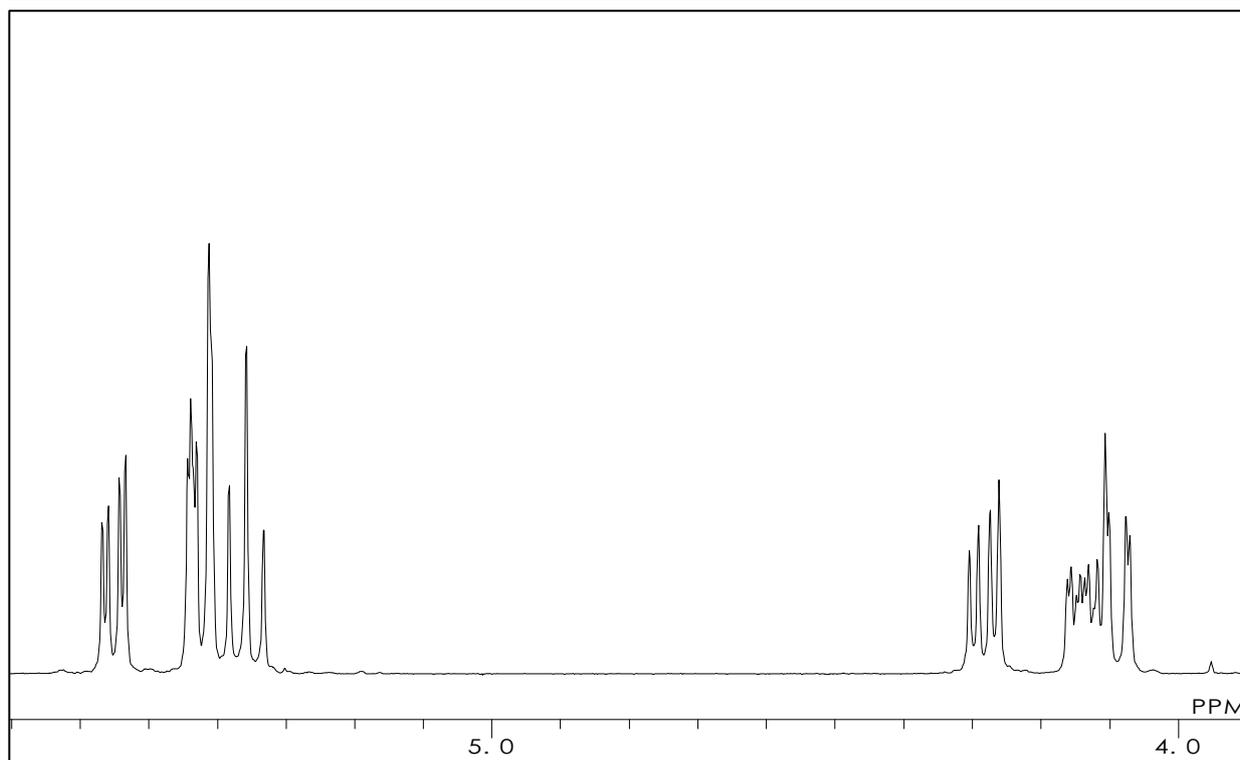
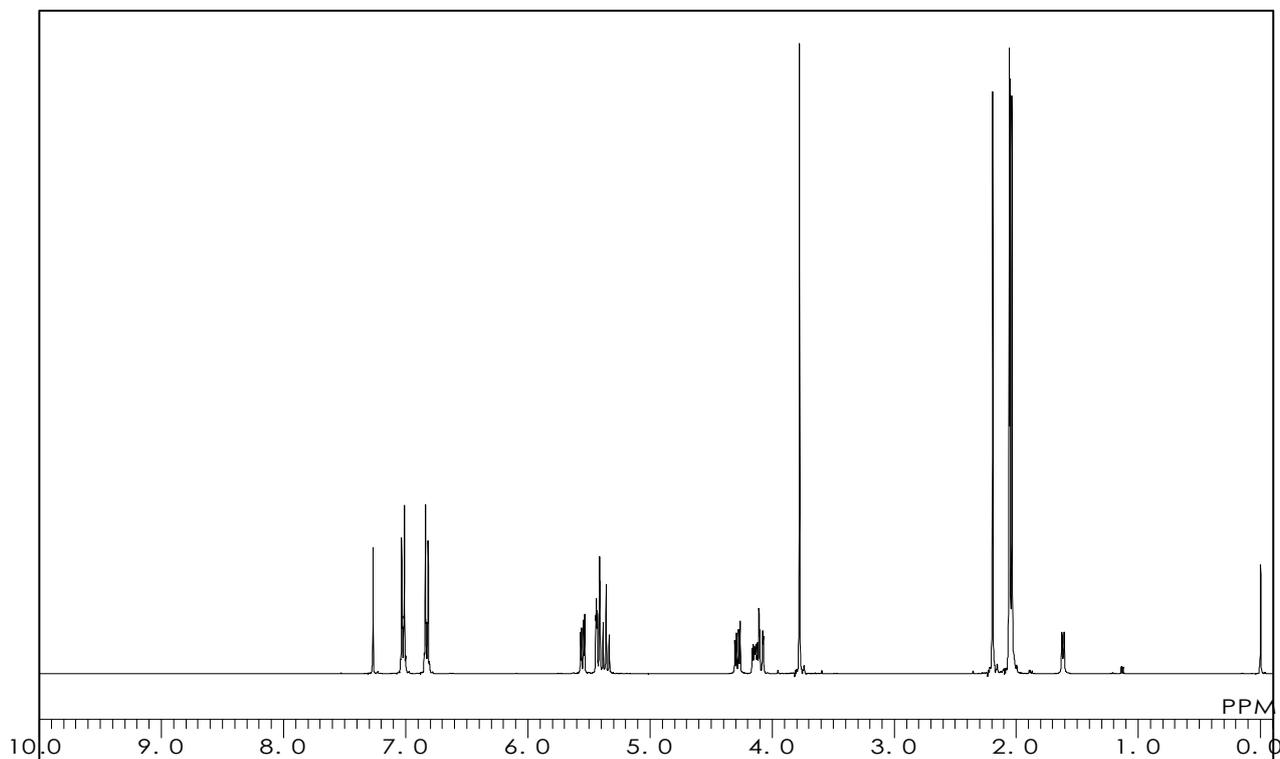
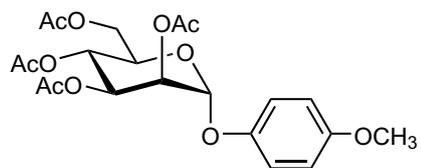
4-Methoxyphenyl 2,3,4,6-Tetra-O-acetyl- α -D-mannopyranoside

$C_{21}H_{26}O_{11}$ = 454.43 [17042-40-9]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.3 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1501

Methyl 2,3,4,6-Tetra-O-acetyl-1-thio- α -D-mannopyranoside

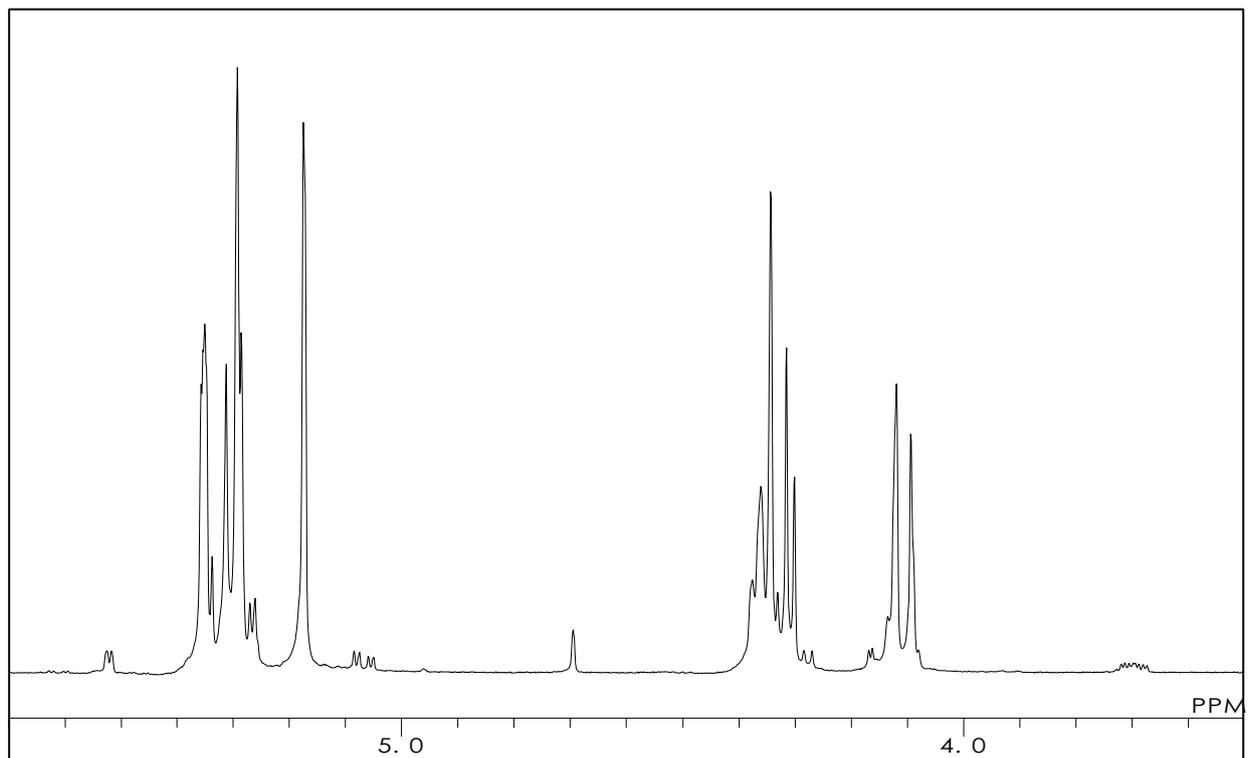
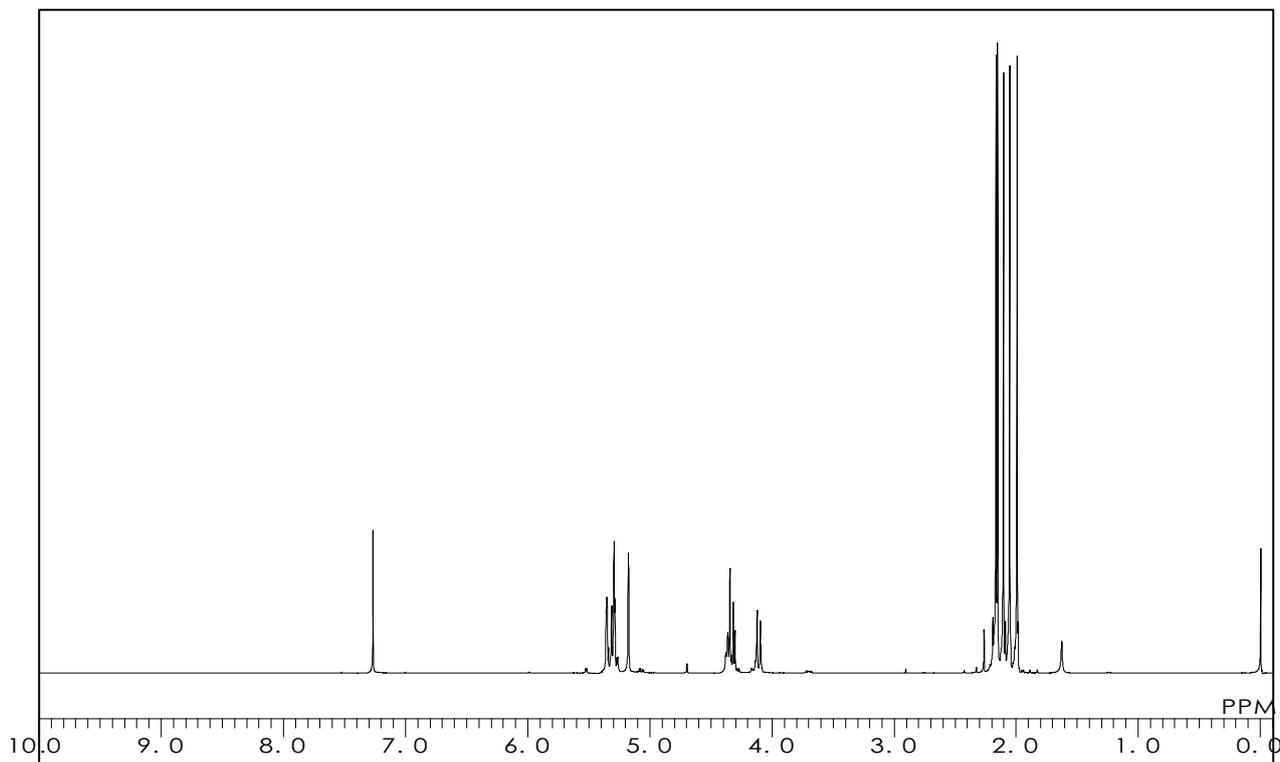
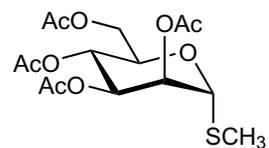
(contains ca.5% β -isomer)

$C_{15}H_{22}O_9S = 378.39$ [64550-71-6]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.9 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

P1514

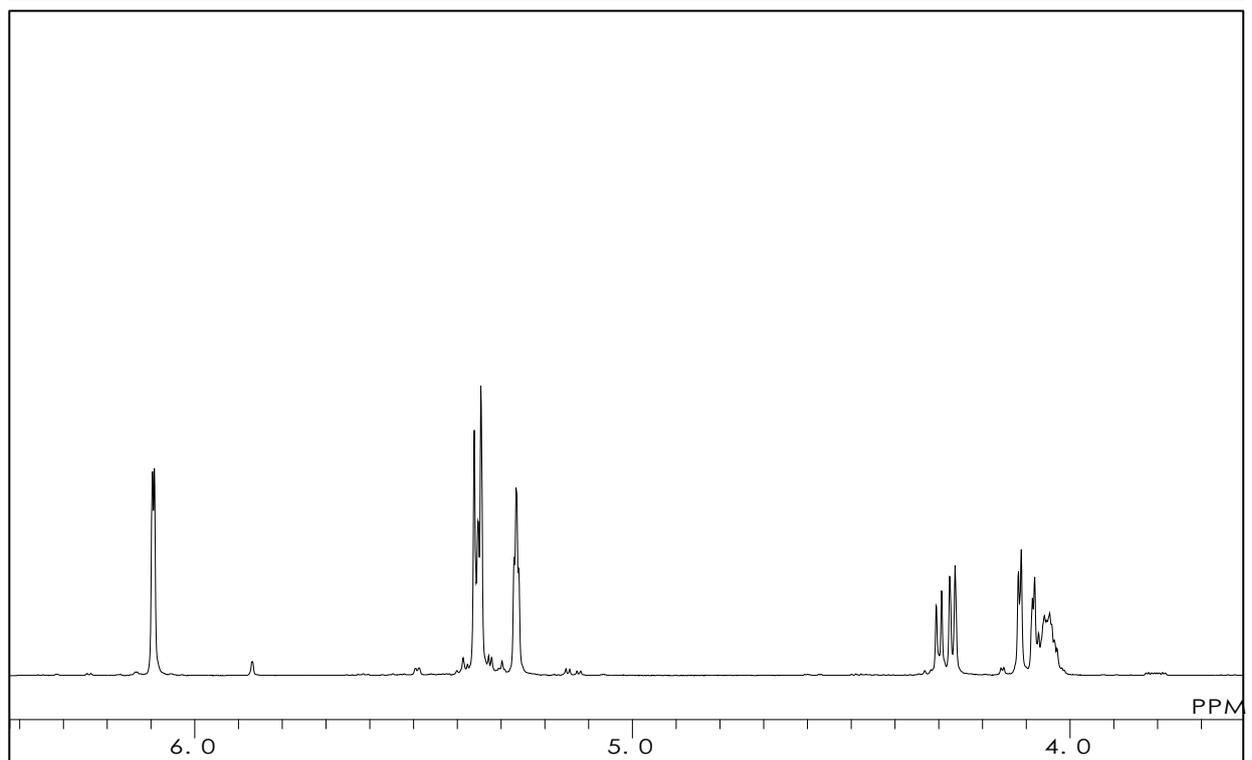
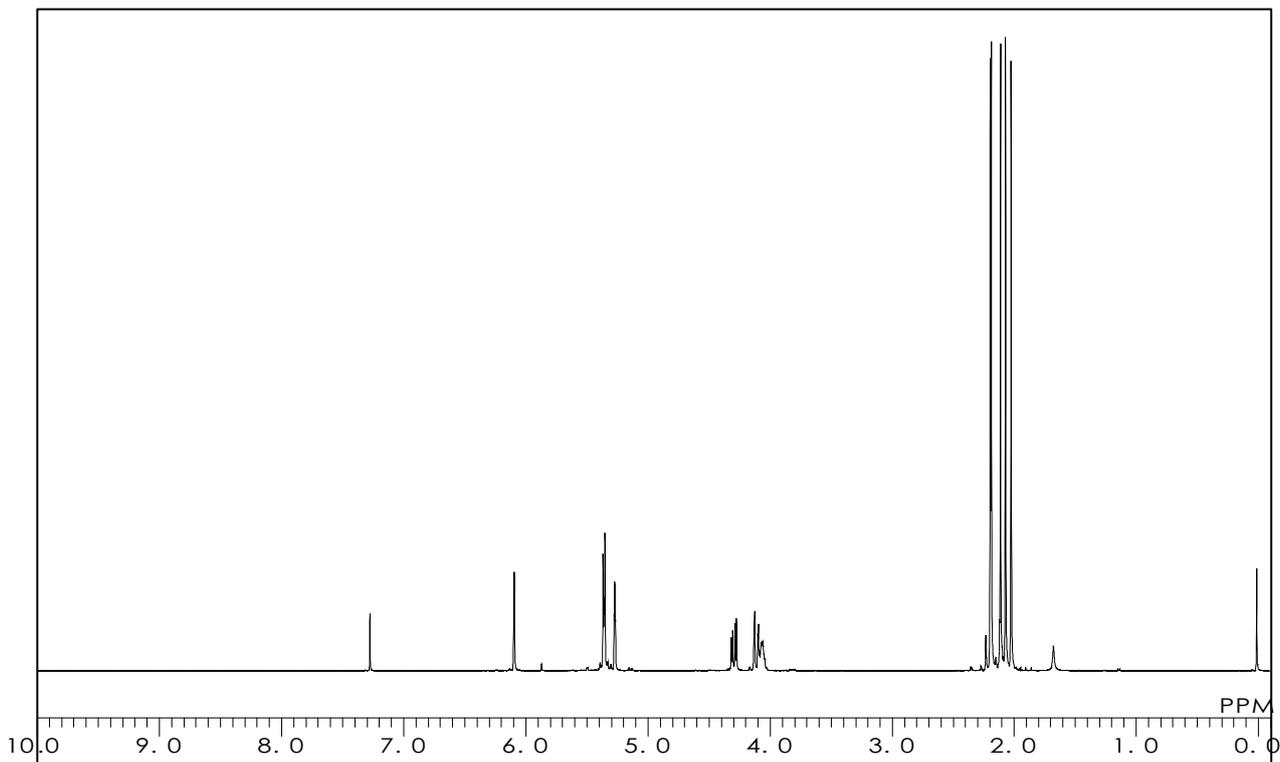
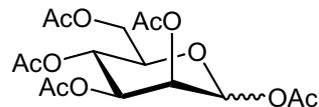
1,2,3,4,6-Penta-O-acetyl-D-mannopyranose

$C_{16}H_{22}O_{11}$ = 390.34 [25941-03-1]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.6 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

P1803

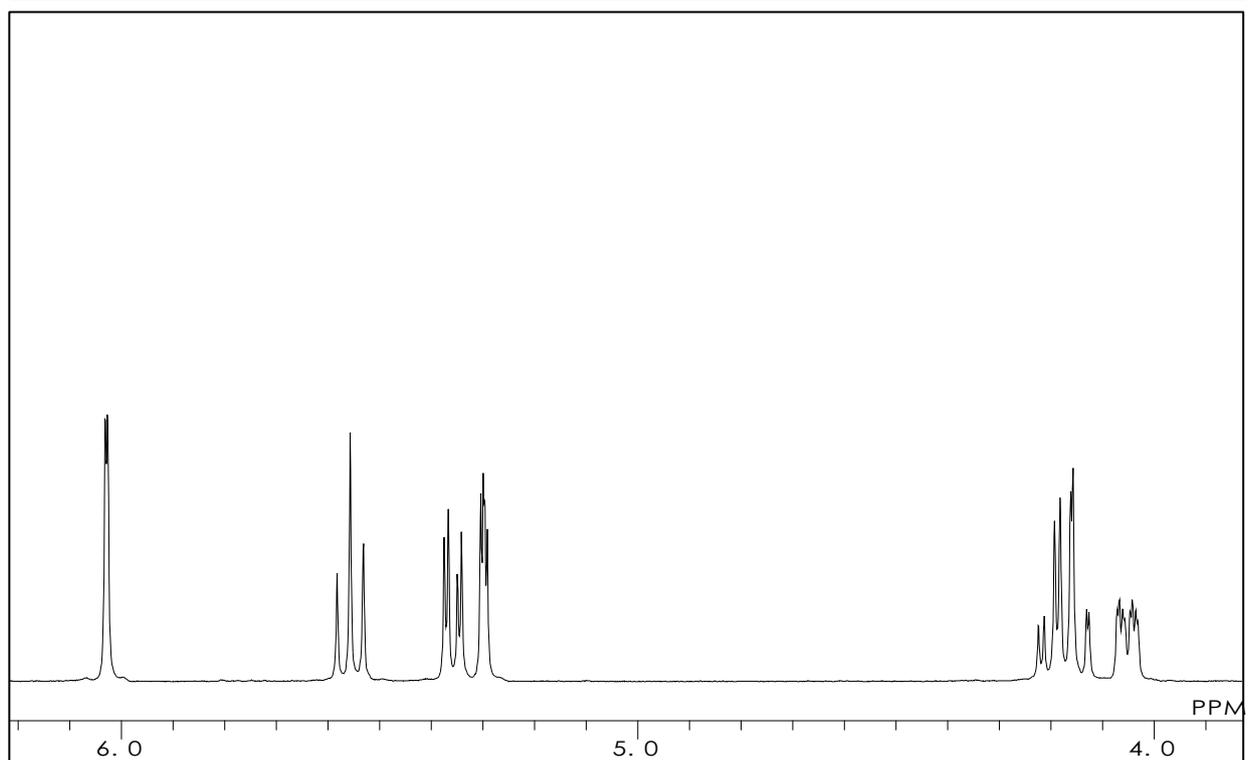
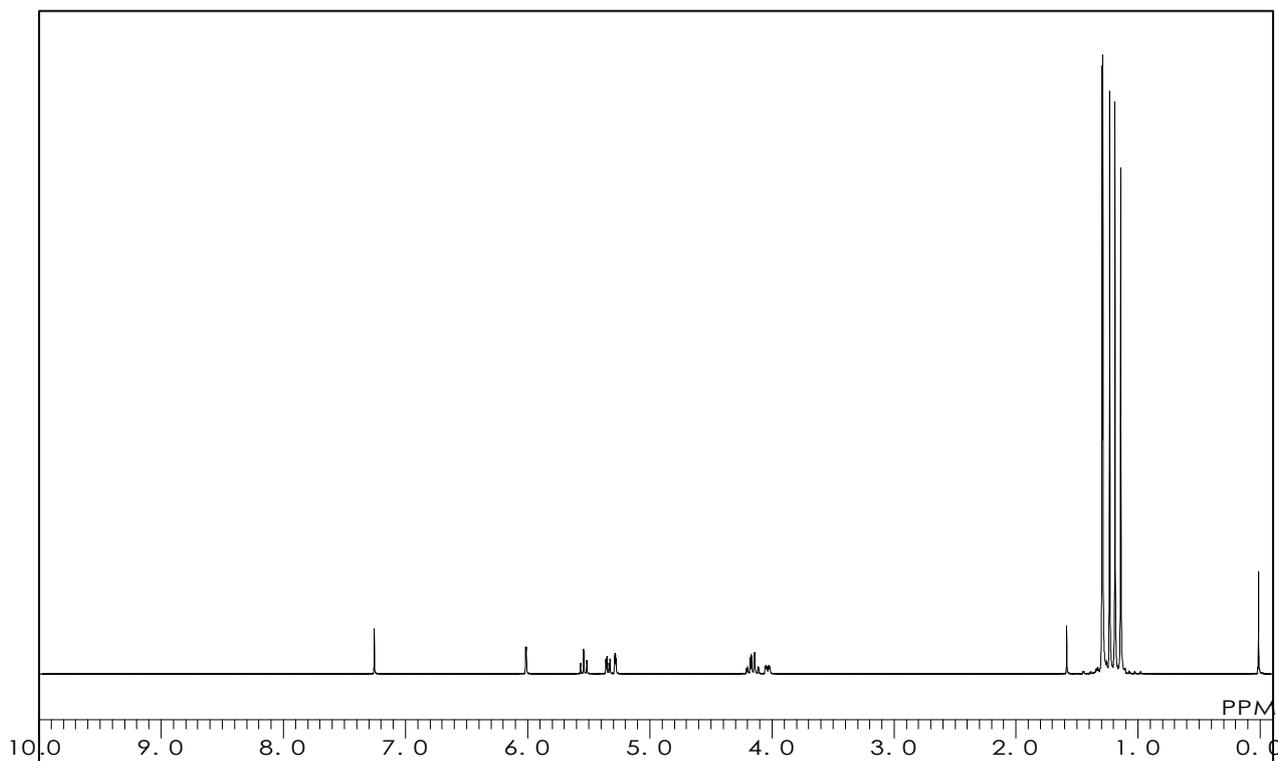
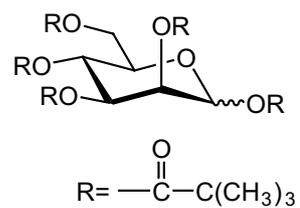
1,2,3,4,6-Penta-O-pivaloyl-D-mannopyranose

$C_{31}H_{52}O_{11}$ = 600.75 [220017-47-0]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.1 °C



P2521

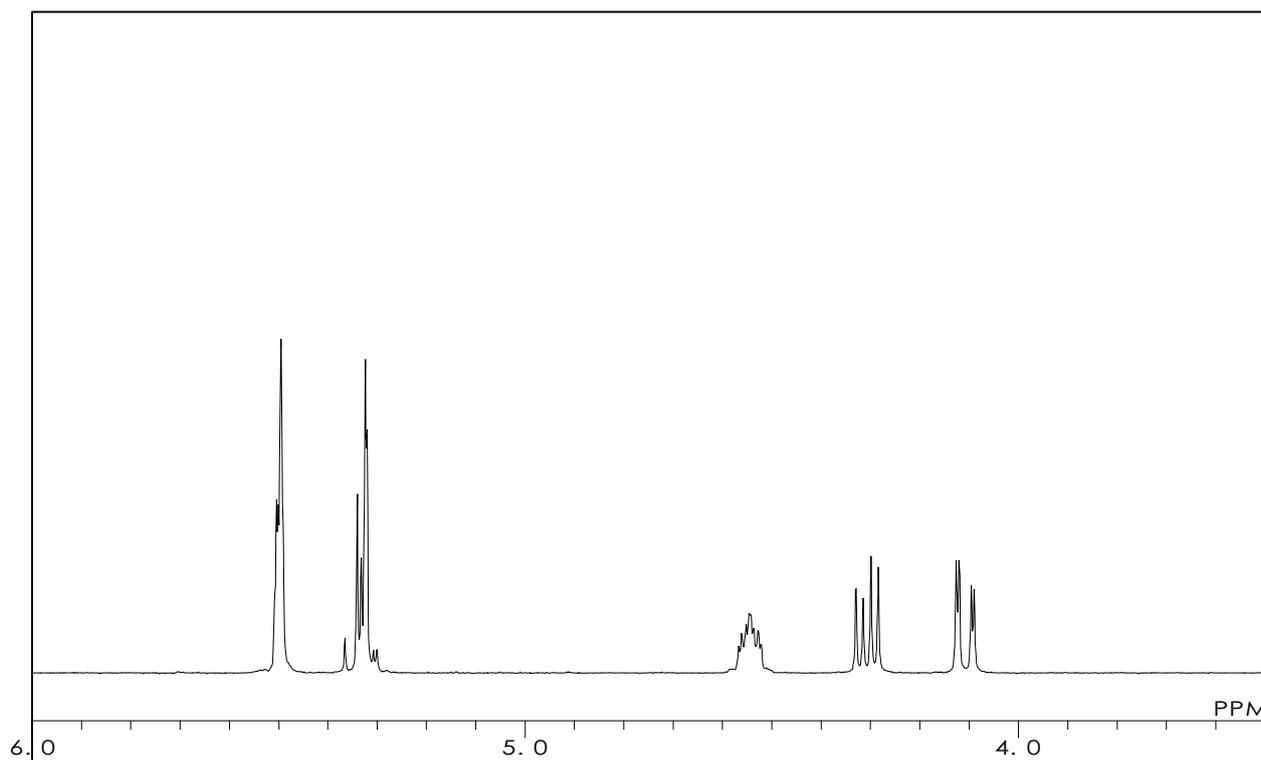
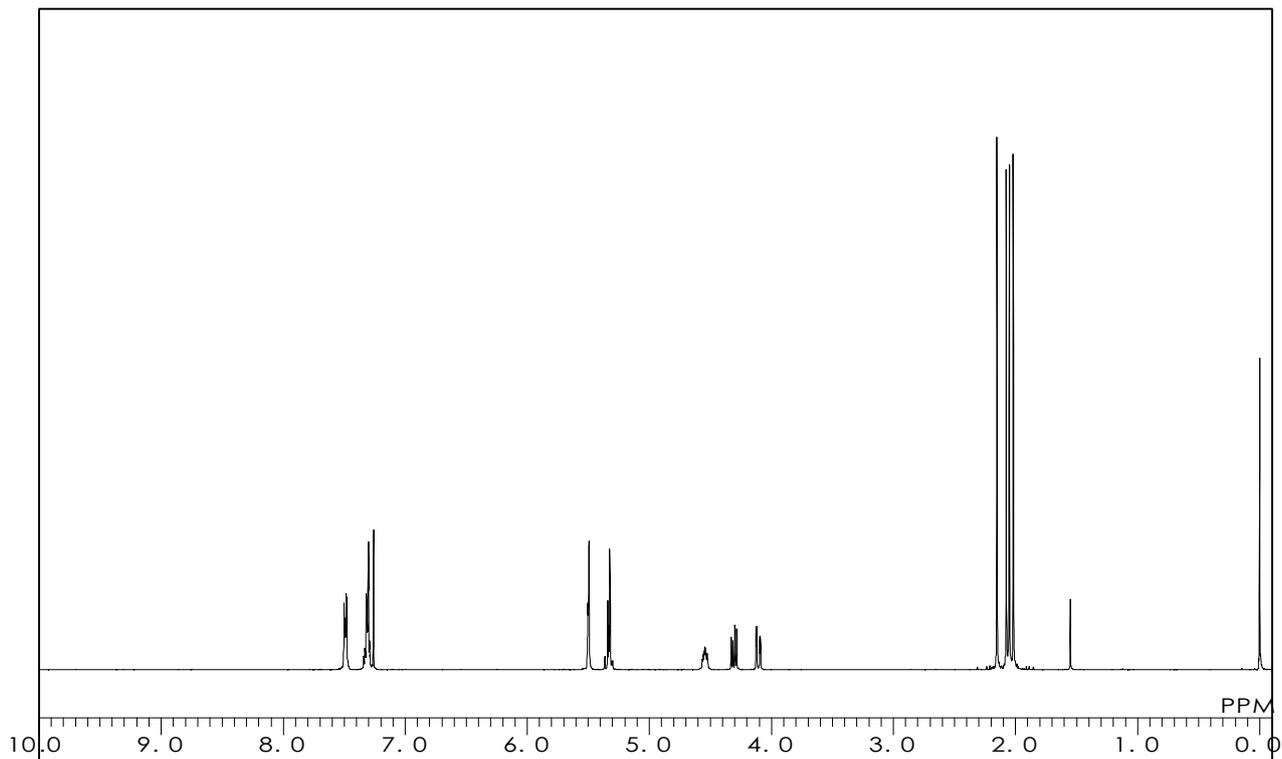
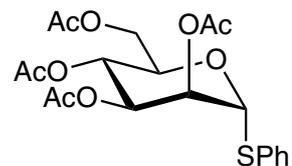
Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio- α -D-mannopyranoside

$C_{20}H_{24}O_9S = 440.46$ [108032-93-5]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 27.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T2567

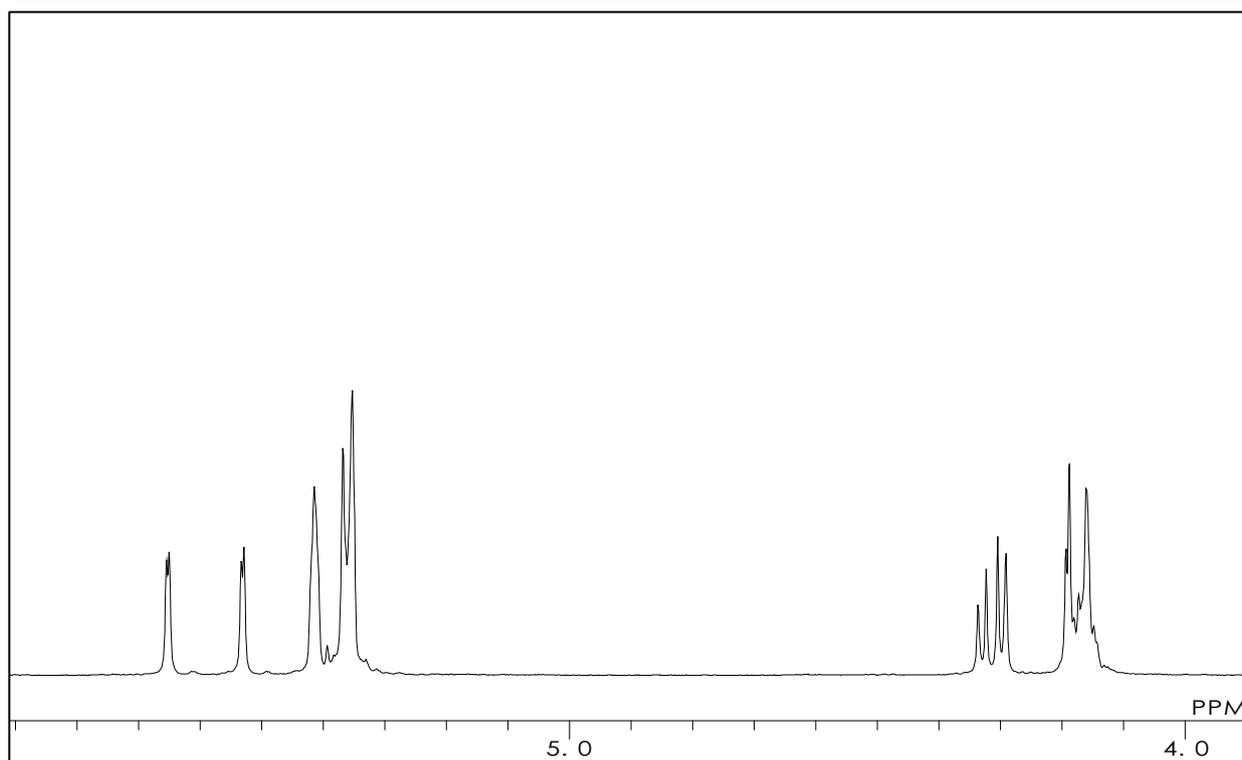
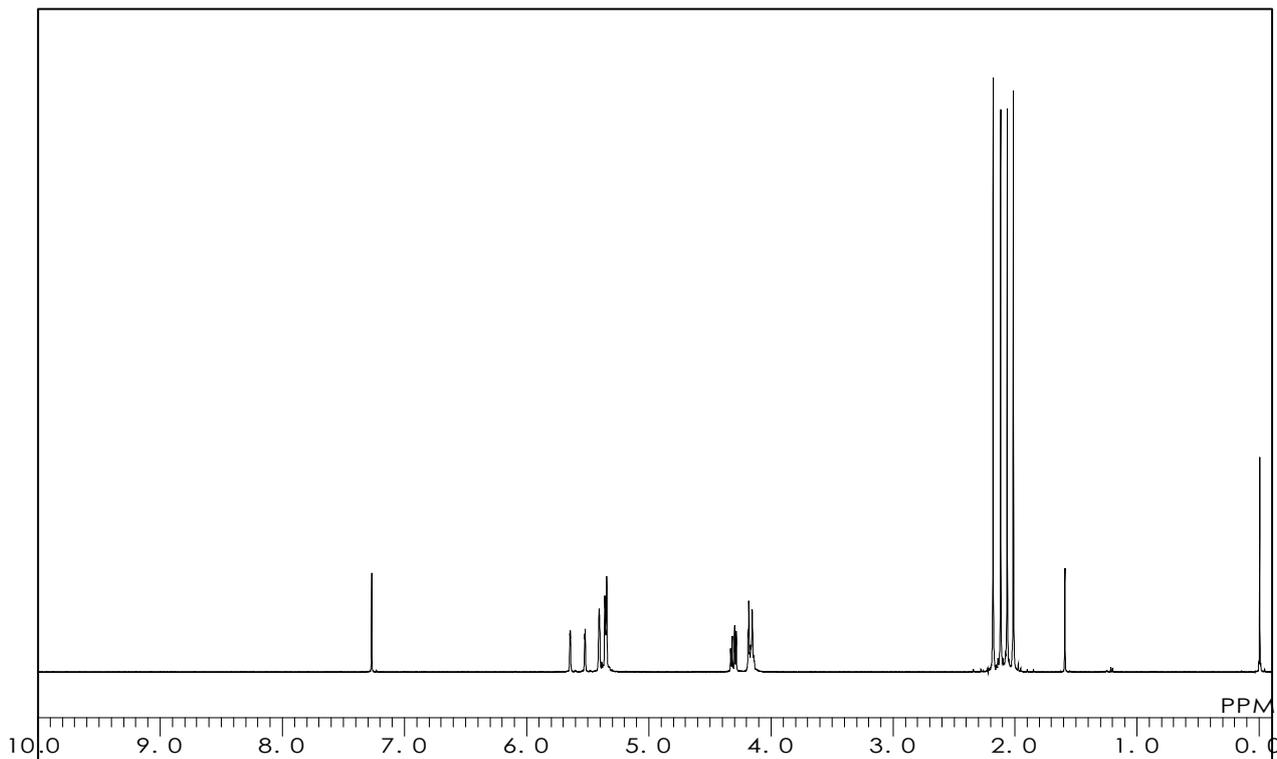
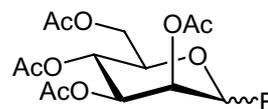
2,3,4,6-Tetra-O-acetyl-D-mannopyranosyl Fluoride

$C_{14}H_{19}FO_9 = 350.30$ [174511-17-2]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.9 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

T2307

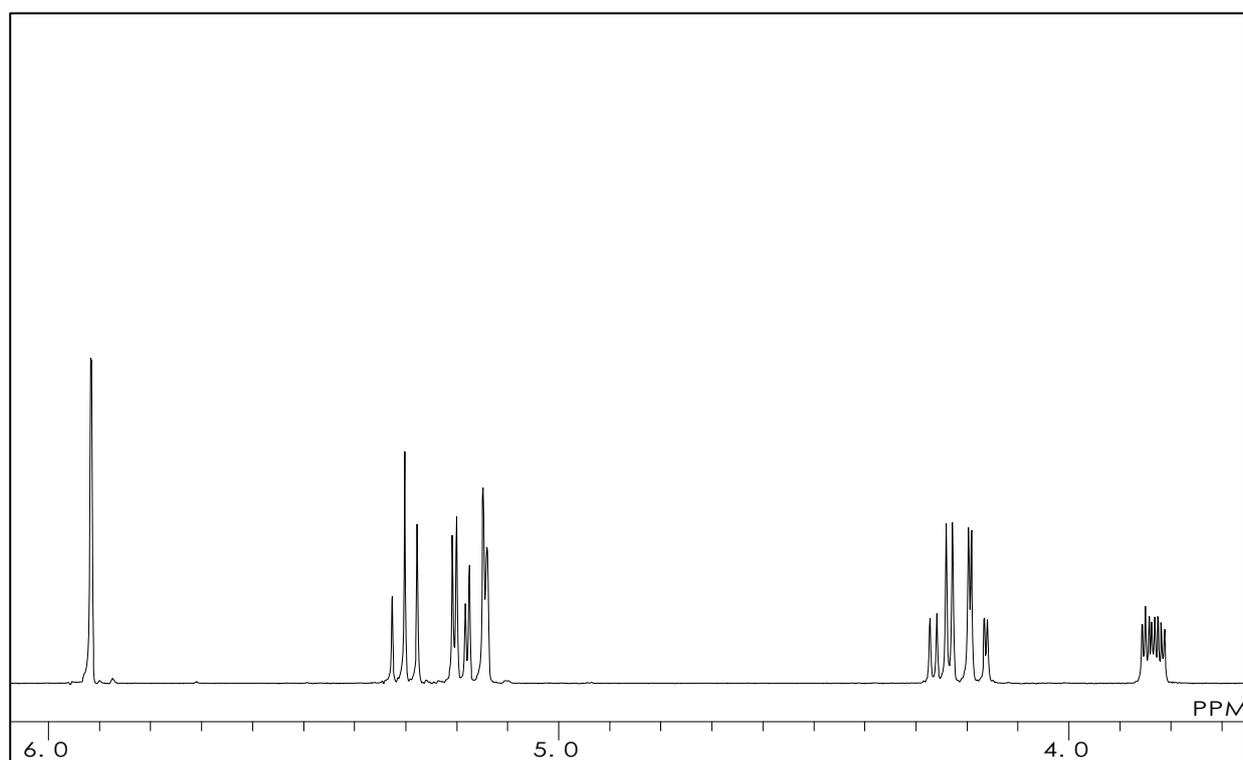
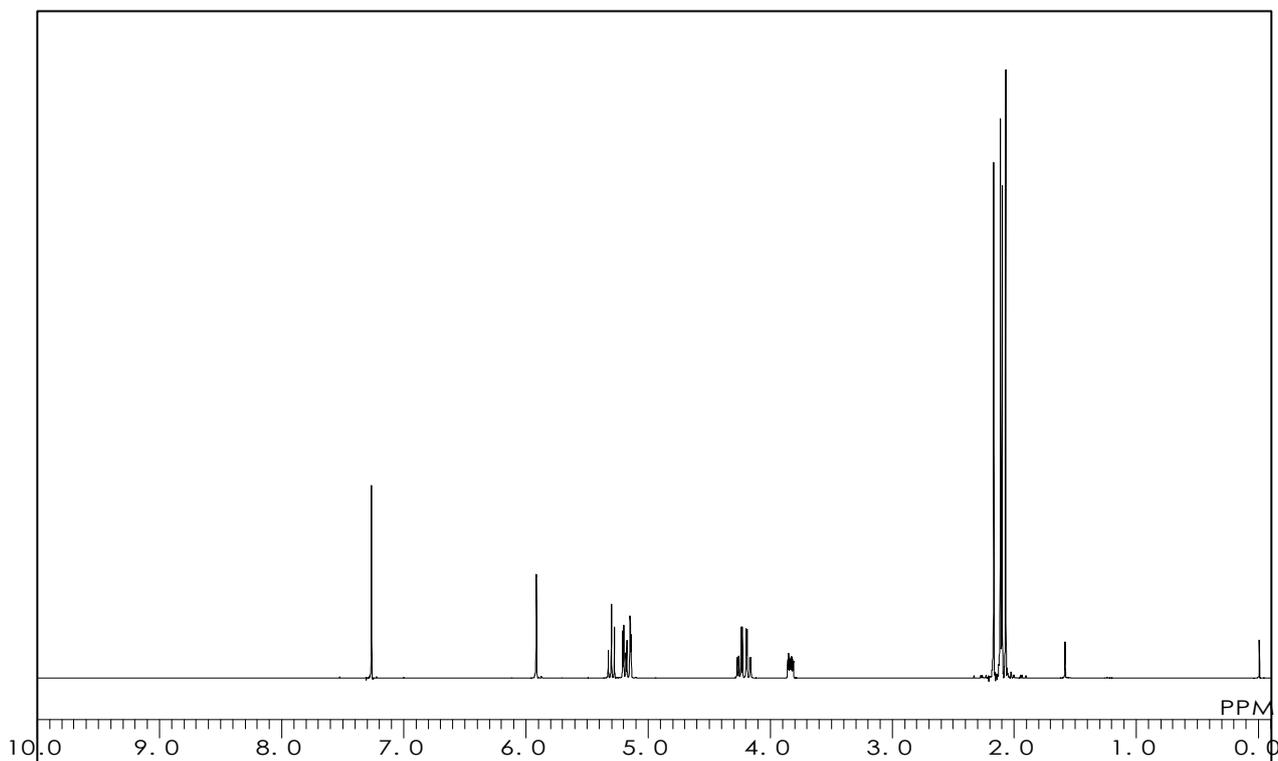
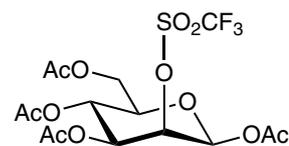
**1,3,4,6-Tetra-O-acetyl-2-O-(trifluoromethanesulfonyl)-
β-D-mannopyranose**

C₁₅H₁₉F₃O₁₂S = 480.36 [92051-23-5]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T2568

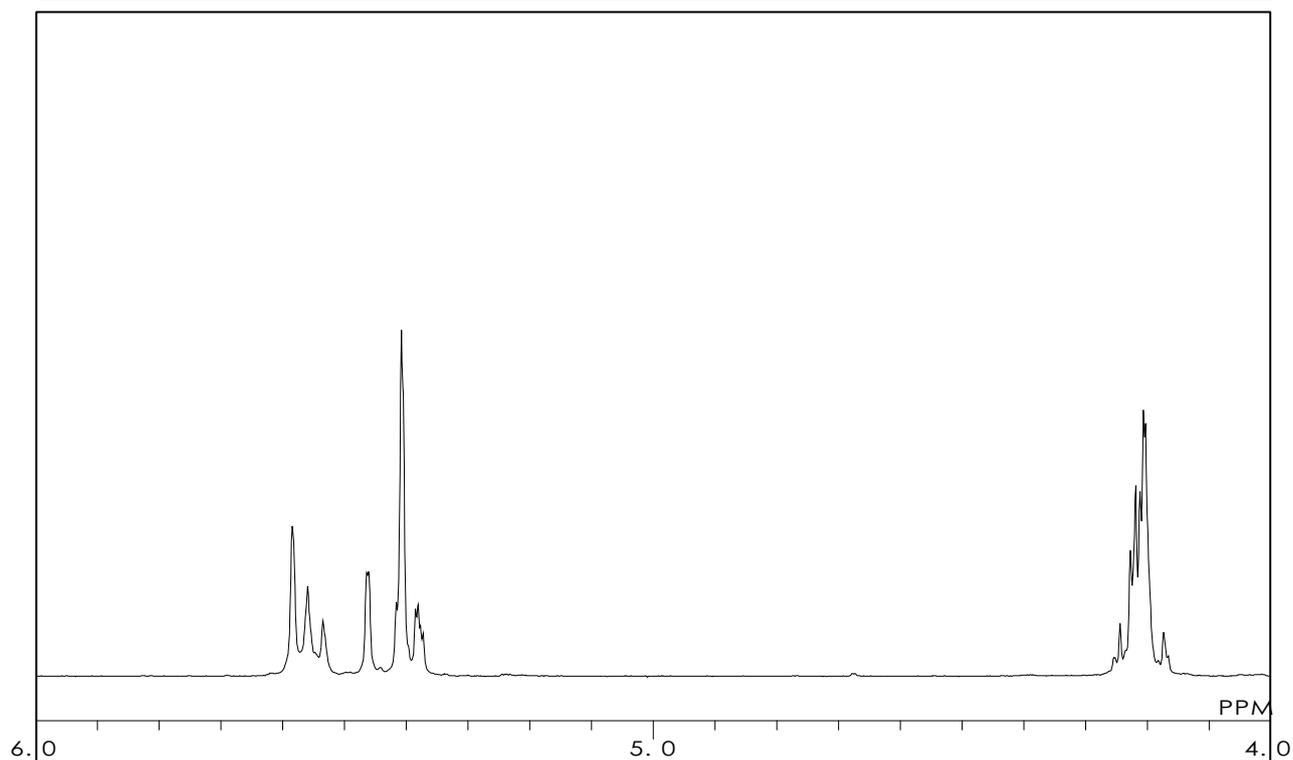
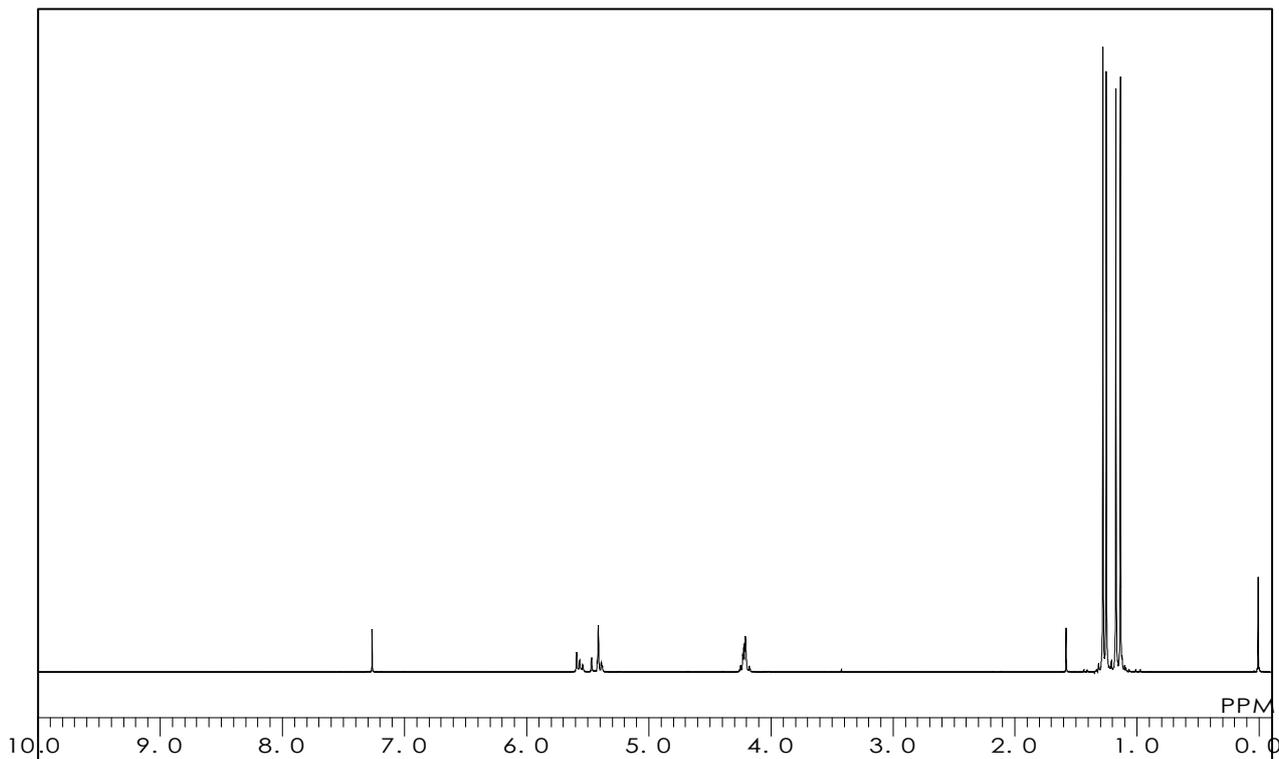
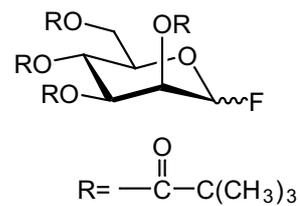
2,3,4,6-Tetra-O-pivaloyl-D-mannopyranosyl Fluoride

$C_{26}H_{43}FO_9 = 518.62$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.7 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0463

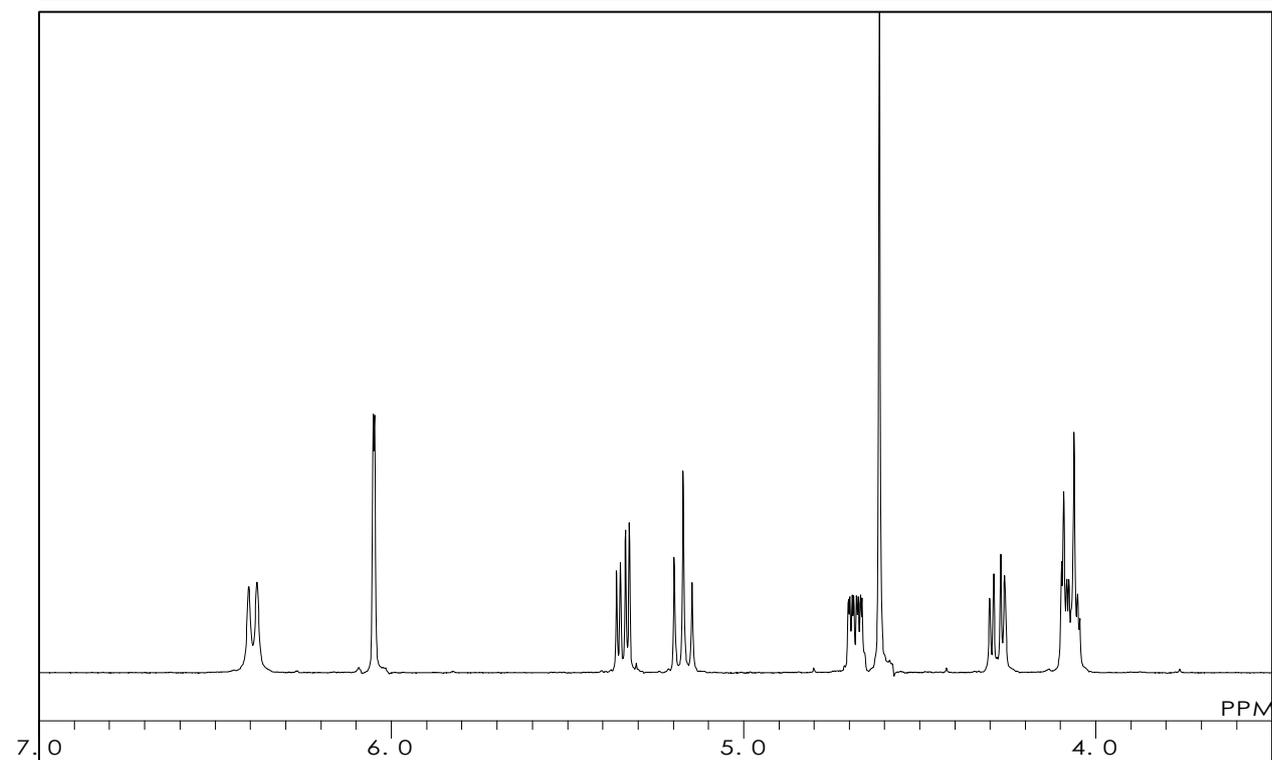
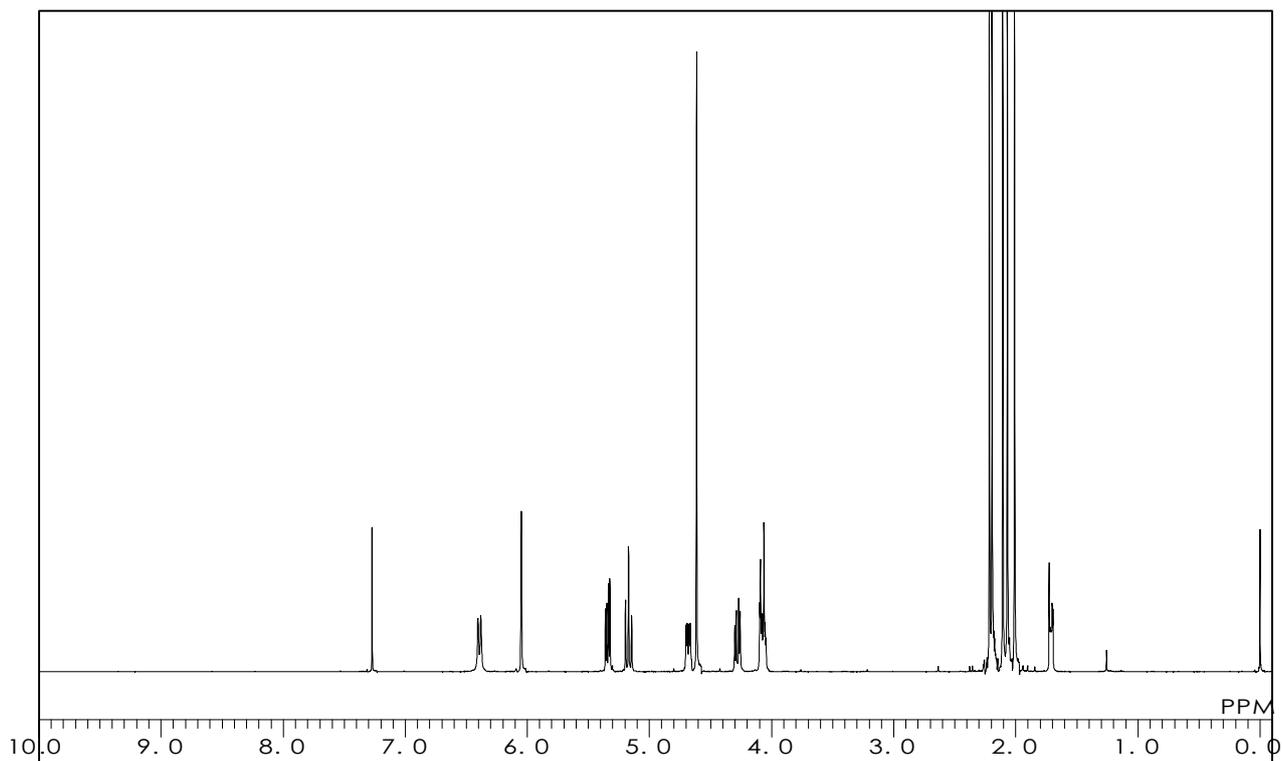
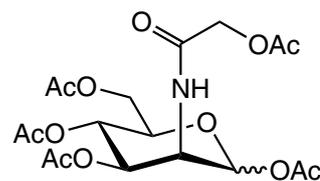
N-Glycolyl-D-mannosamine Pentaacetate

$C_{18}H_{25}NO_{12}$ = 447.39 [258824-38-3]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 24.5 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T1733

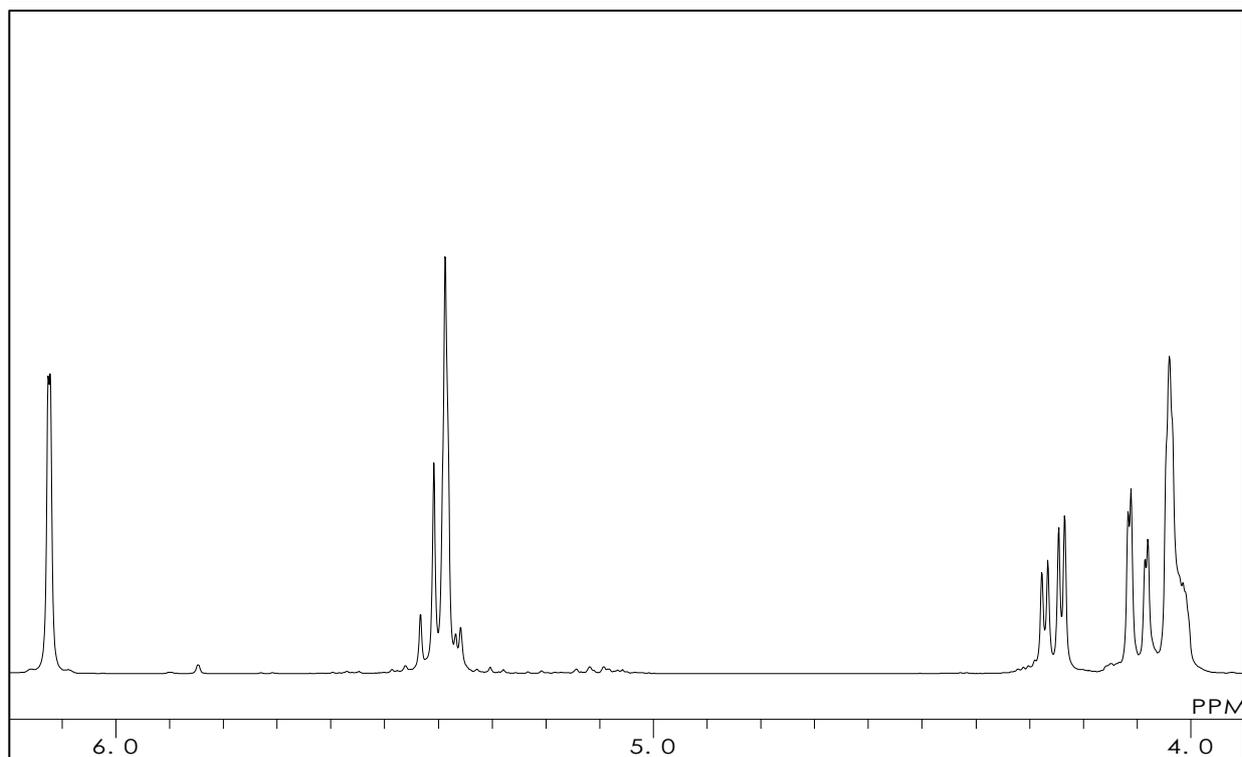
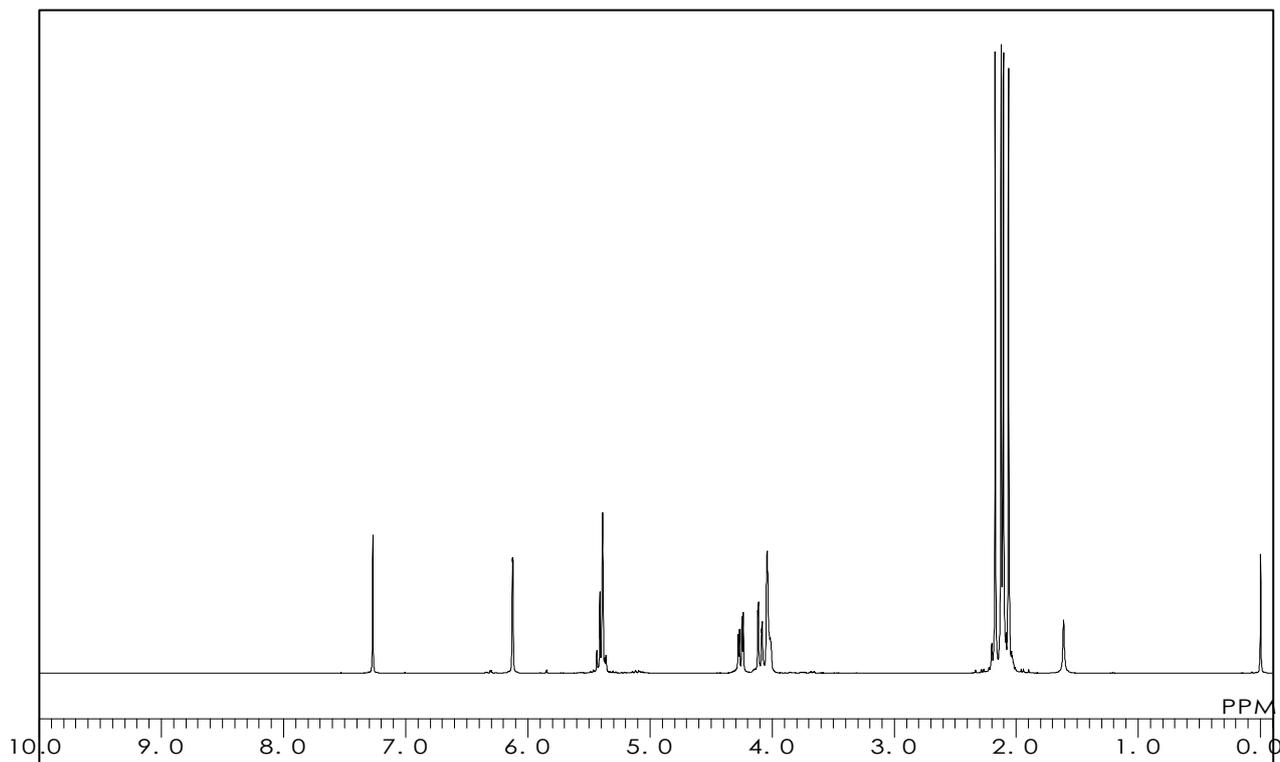
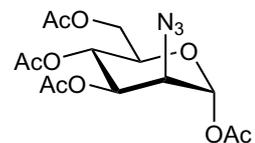
1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α -D-mannopyranose

$C_{14}H_{19}N_3O_9 = 373.32$ [68733-20-0]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.8 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

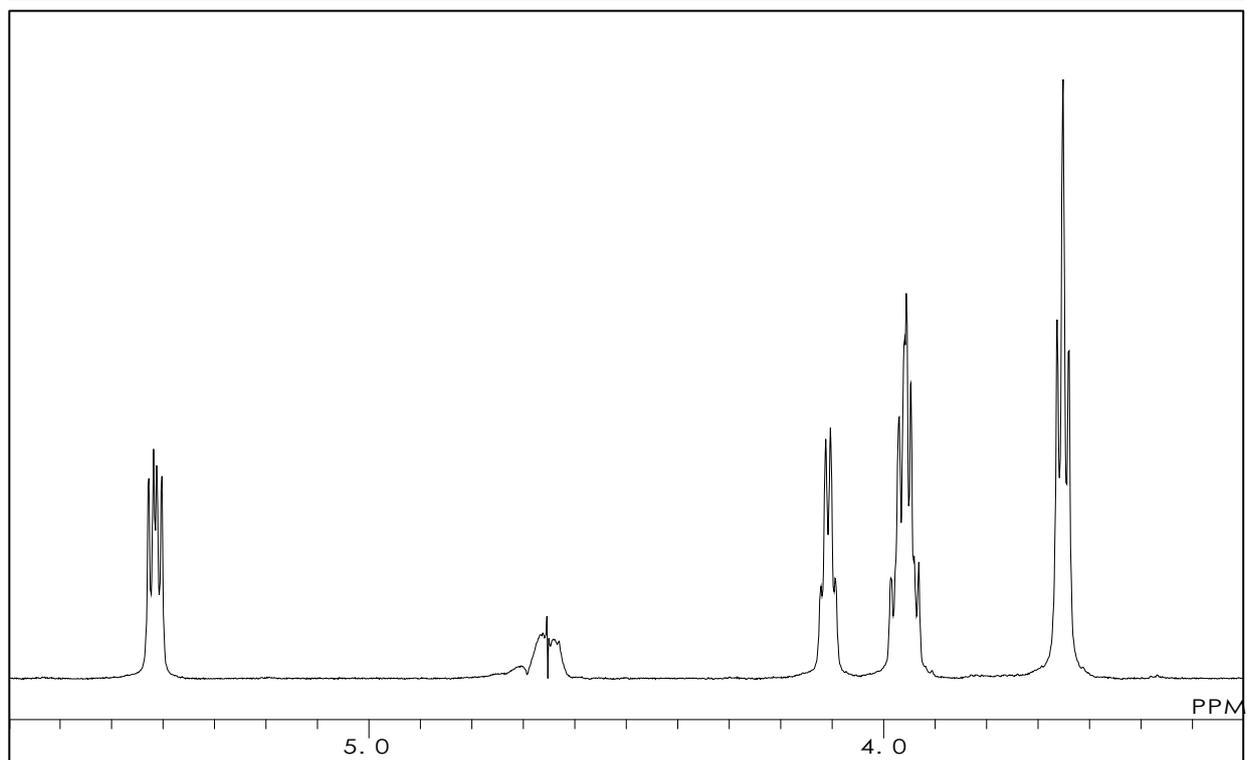
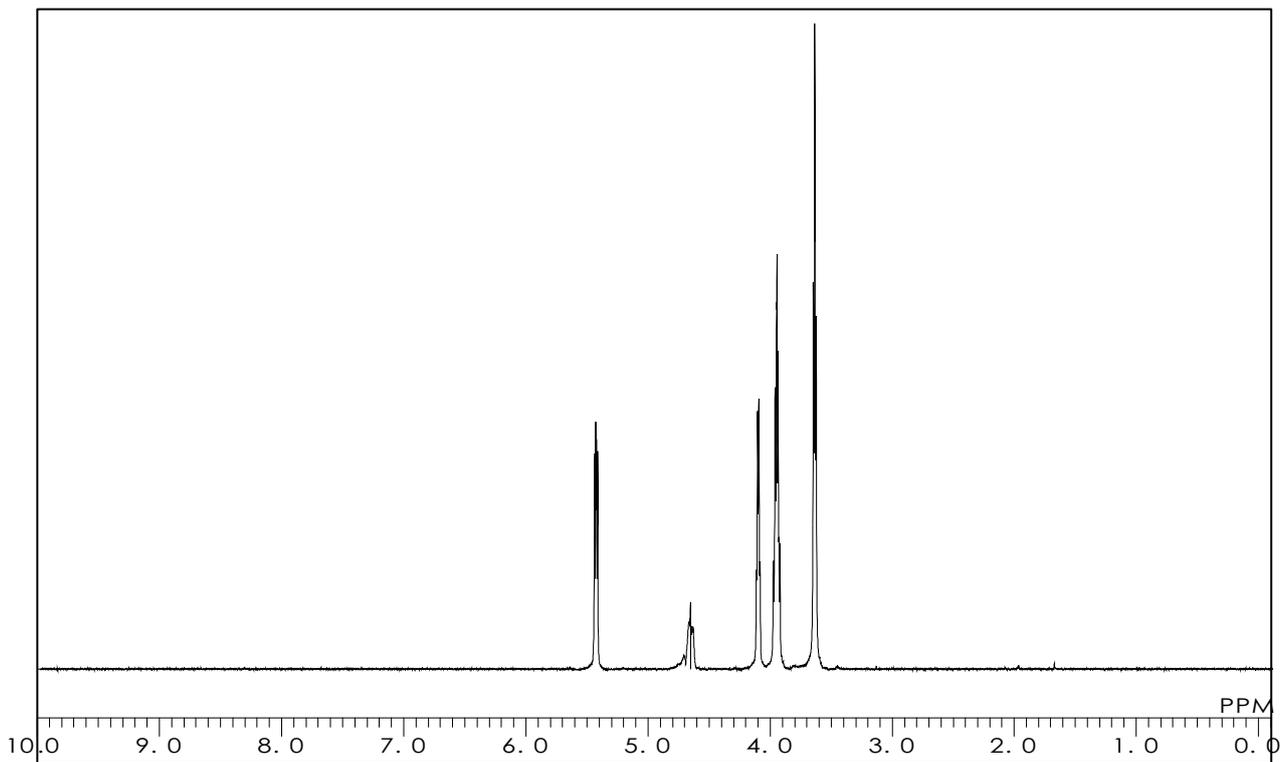
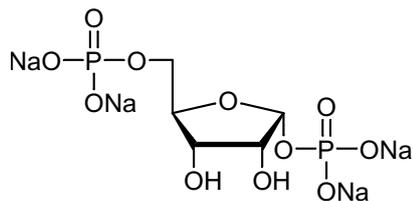
R0082

α -D-Ribose 1,5-Bis(phosphate) Tetrasodium Salt

$C_5H_8Na_4O_{11}P_2 = 398.01$ [113599-17-0]

Solvent : D_2O

Measured Temperature : 19.3 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

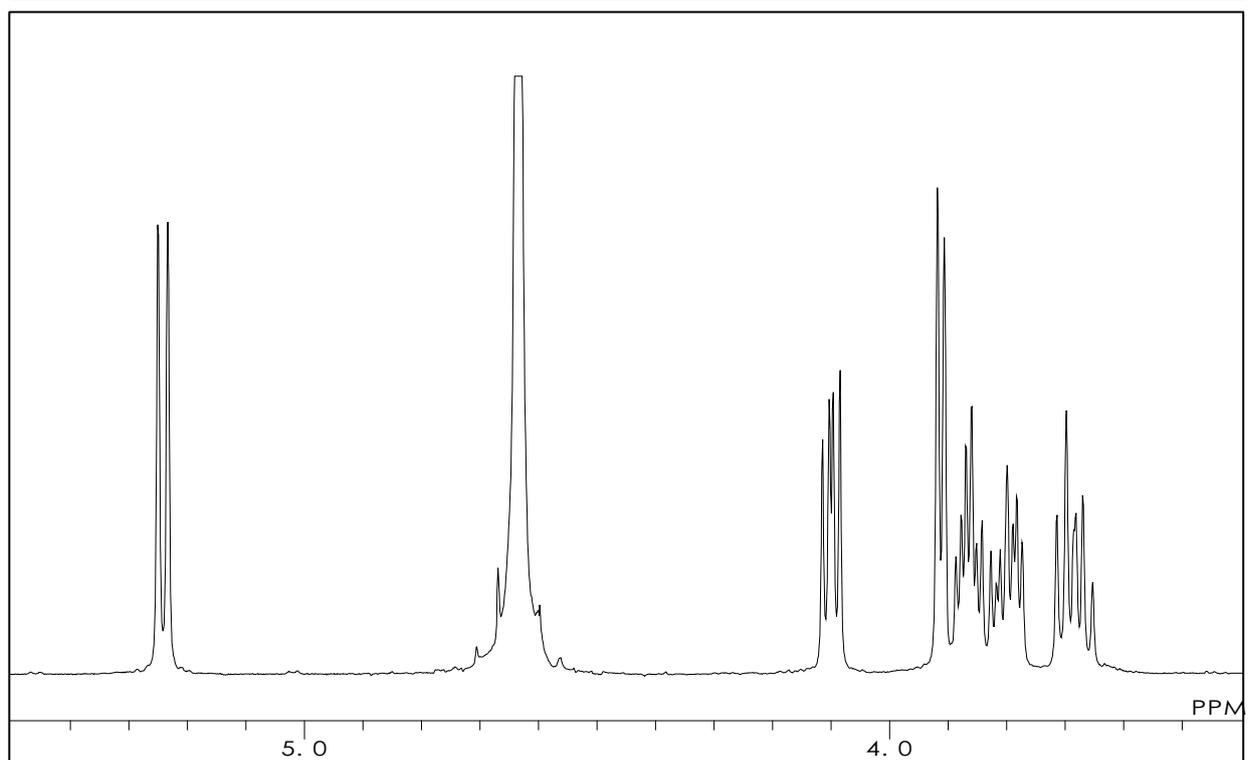
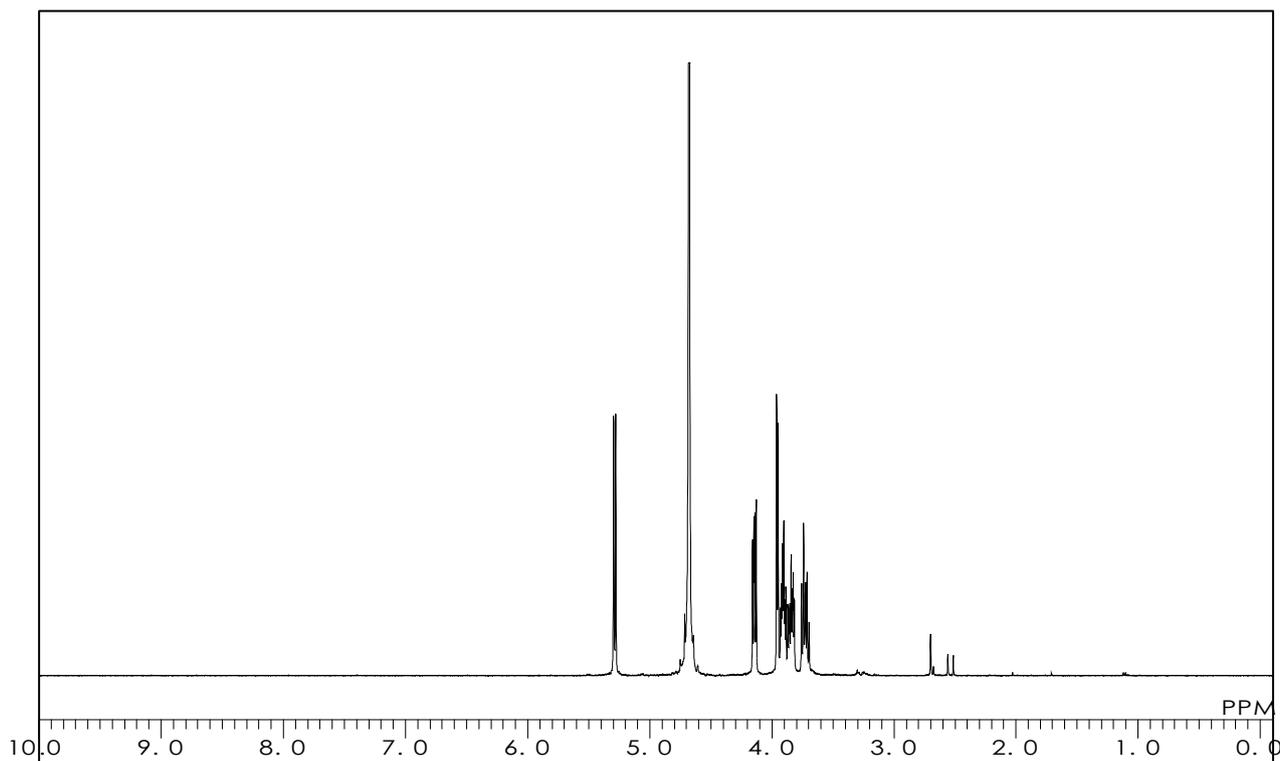
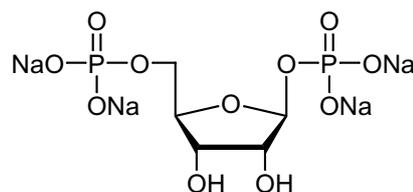
R0083

β -D-Ribose 1,5-Bis(phosphate) Tetrasodium Salt

$C_5H_8Na_4O_{11}P_2 = 398.01$

Solvent : D_2O

Measured Temperature : 19.3 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

A2511

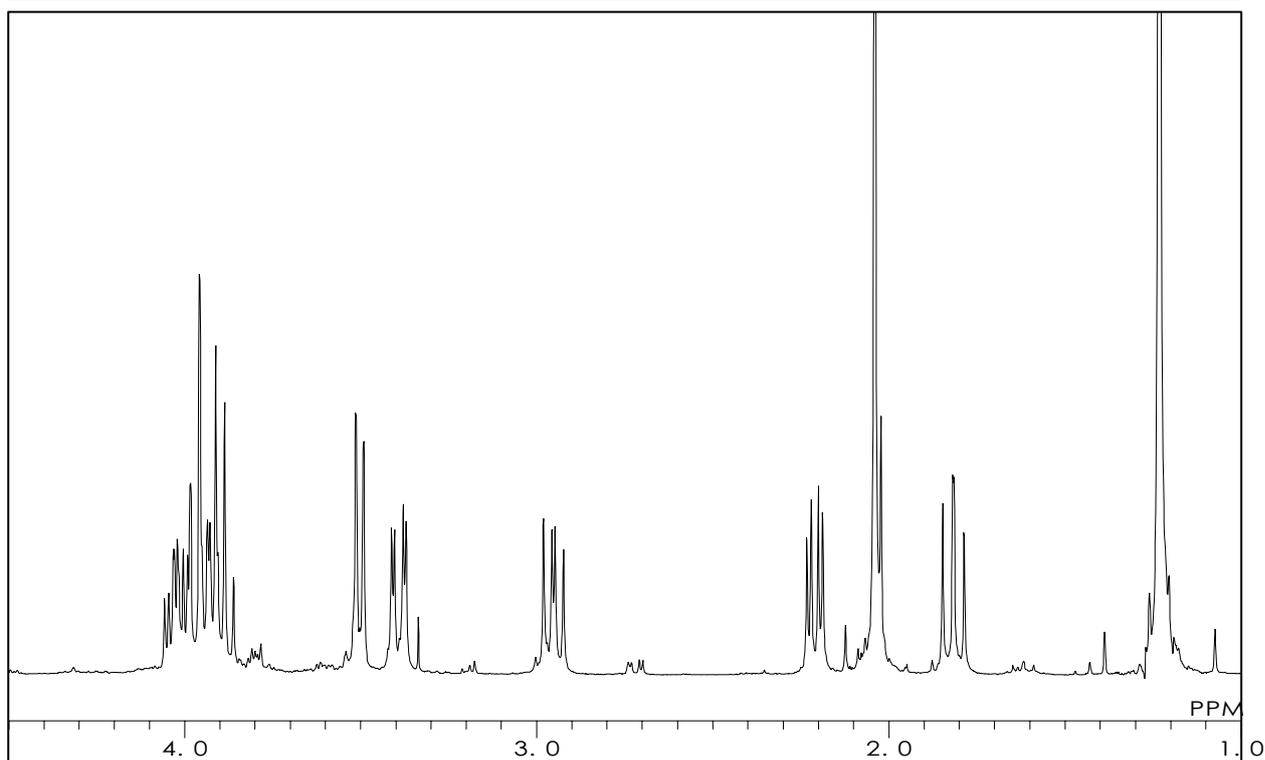
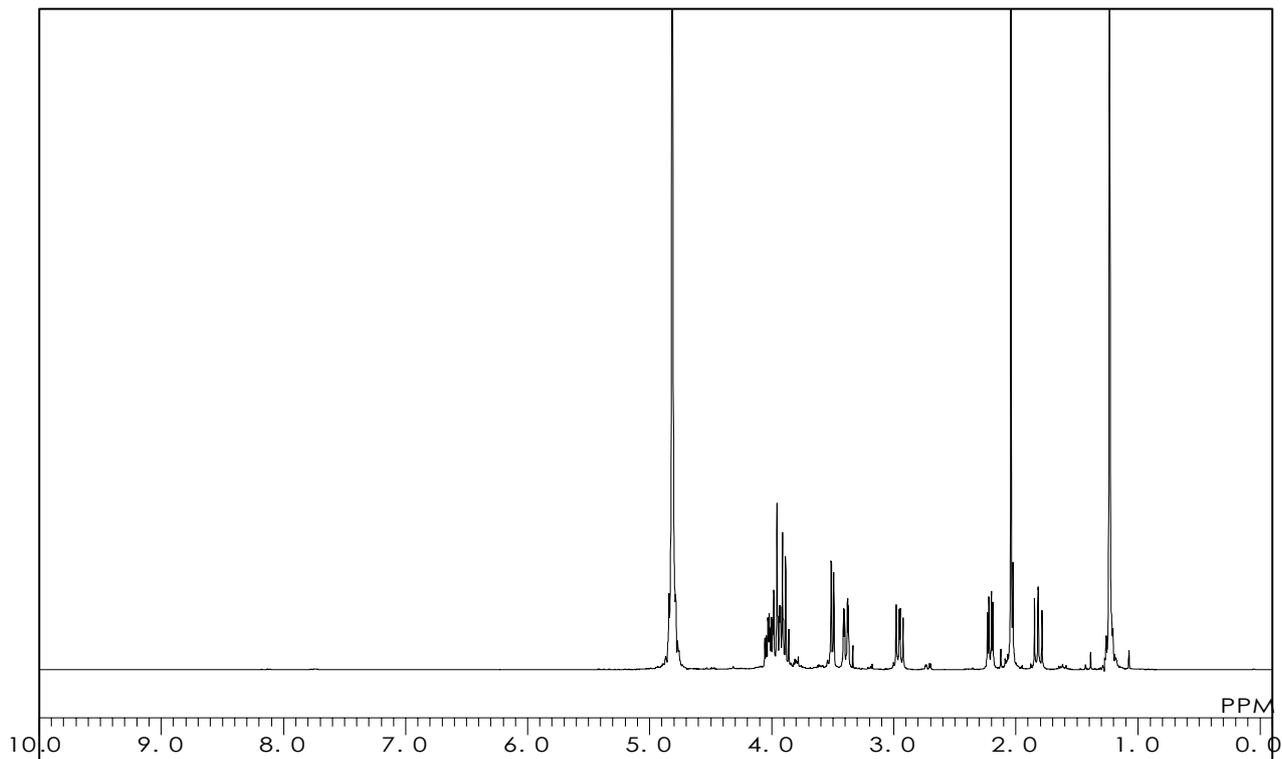
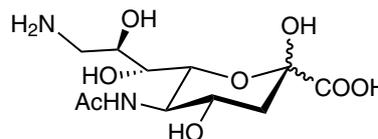
N-Acetyl-9-deoxy-9-aminoneuraminic Acid

$C_{11}H_{20}N_2O_8 = 308.29$ [112037-47-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 20.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

A2492

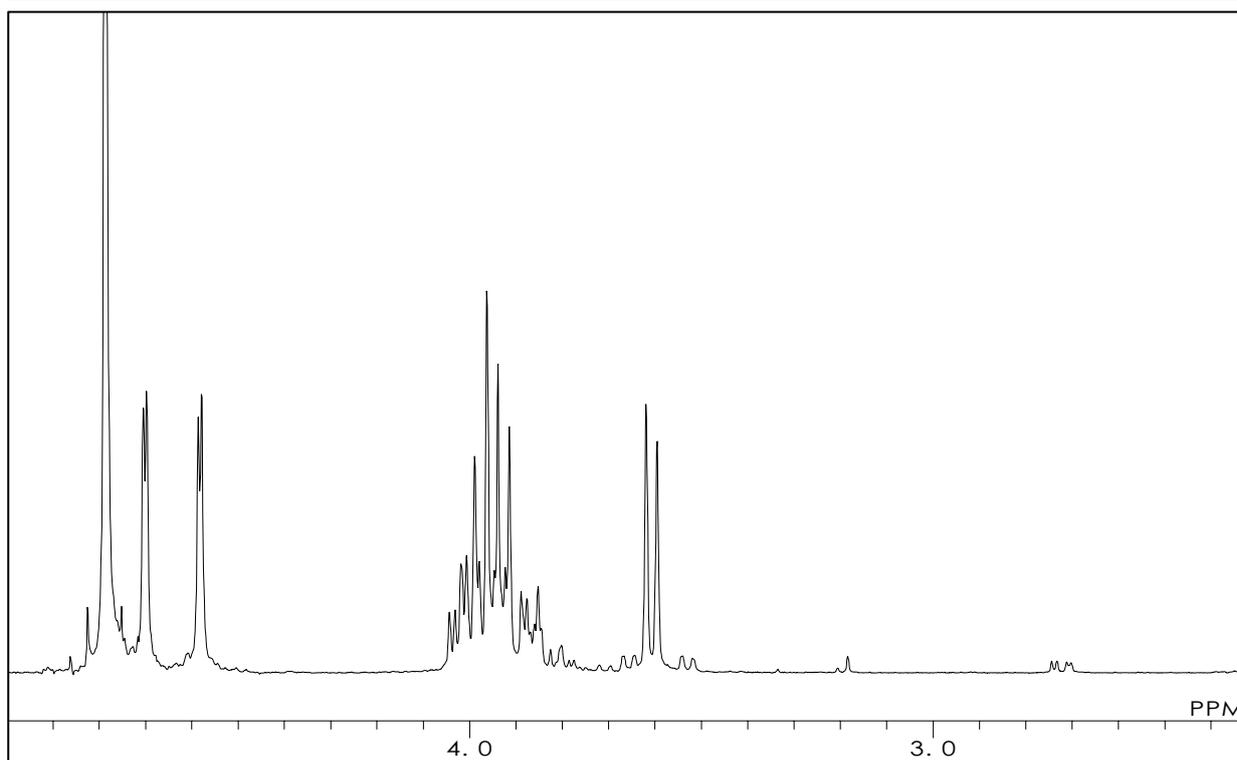
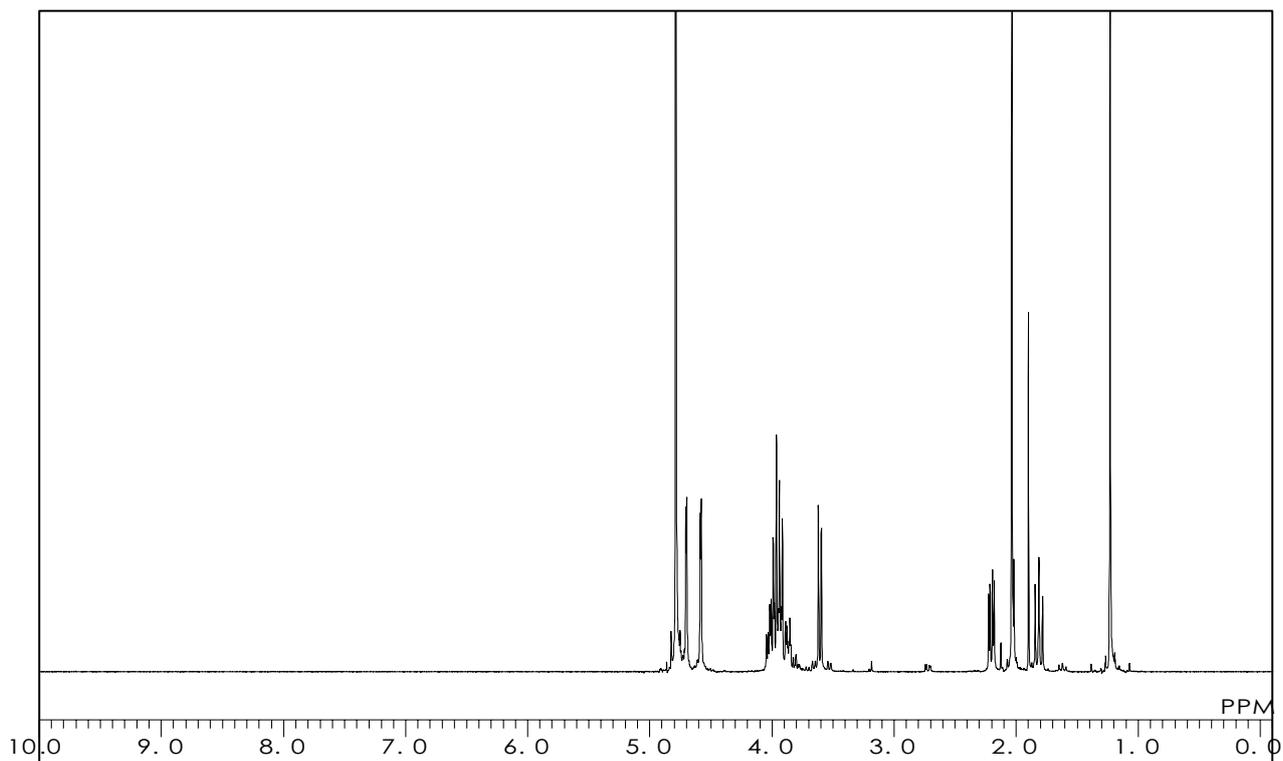
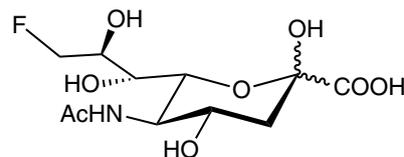
N-Acetyl-9-deoxy-9-fluoroneuraminic Acid

$C_{11}H_{18}FNO_8 = 311.26$ [85819-28-9]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.2 °C



A1821

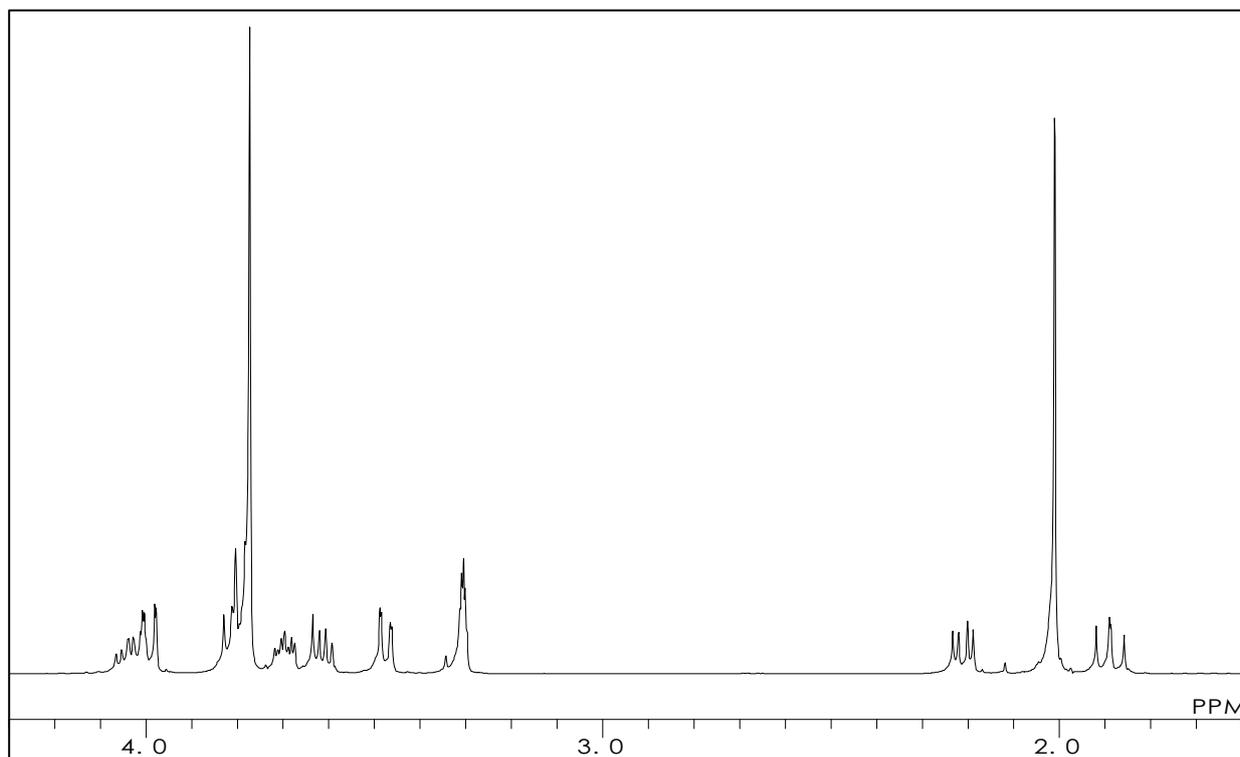
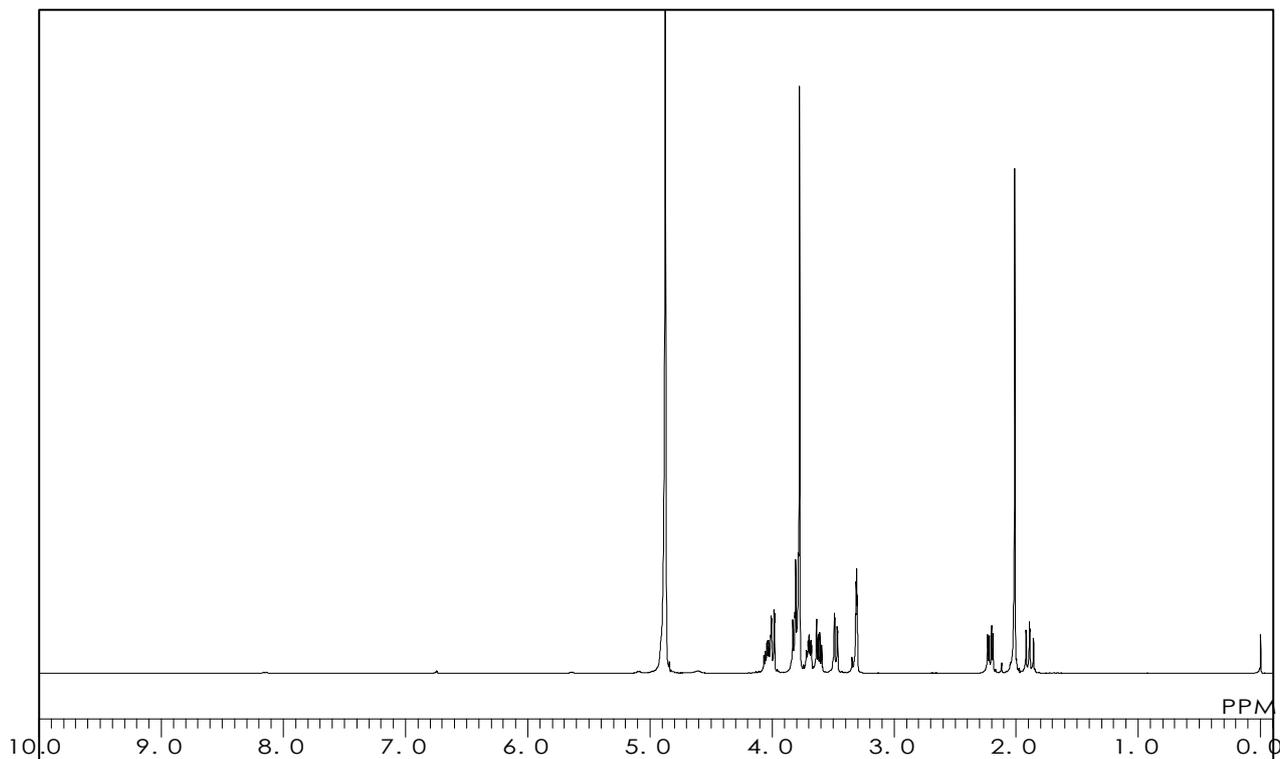
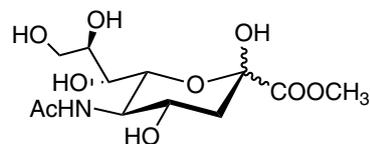
N-Acetylneuraminic Acid Methyl Ester

$C_{12}H_{21}NO_9 = 323.30$ [22900-11-4]

Solvent : CD_3OD

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1706

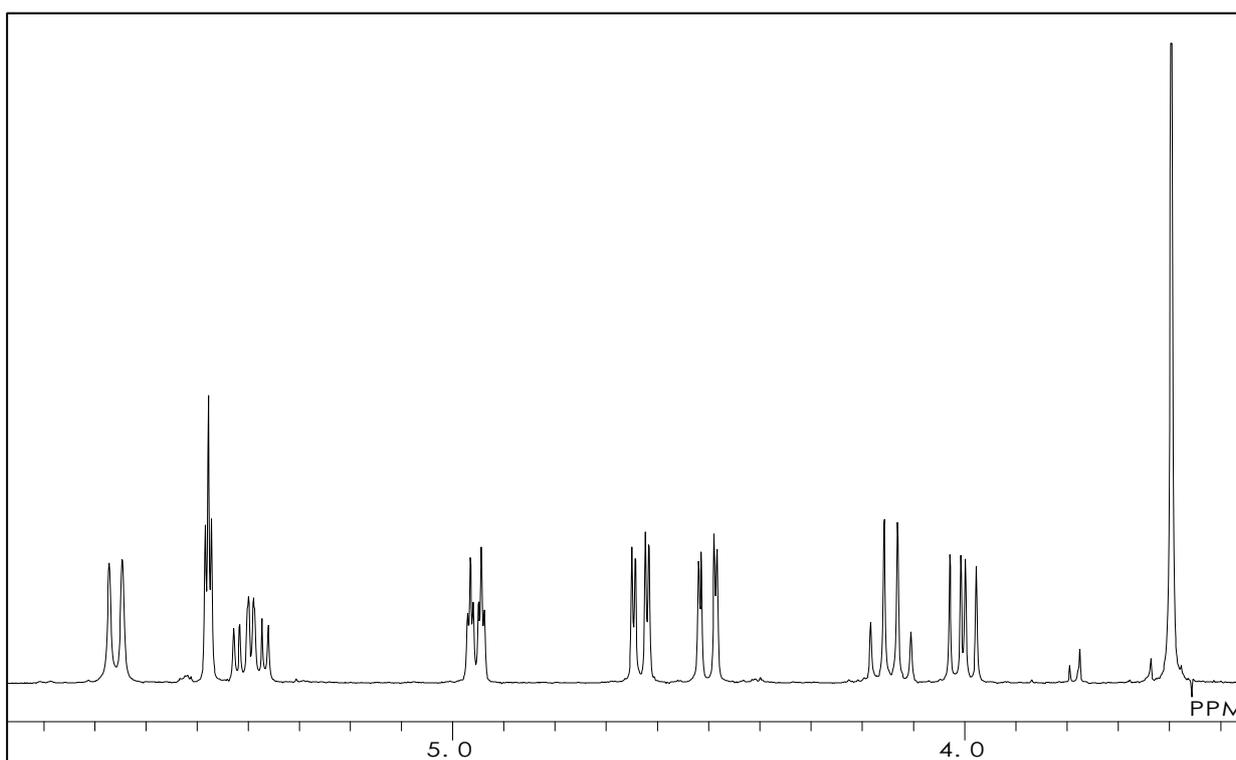
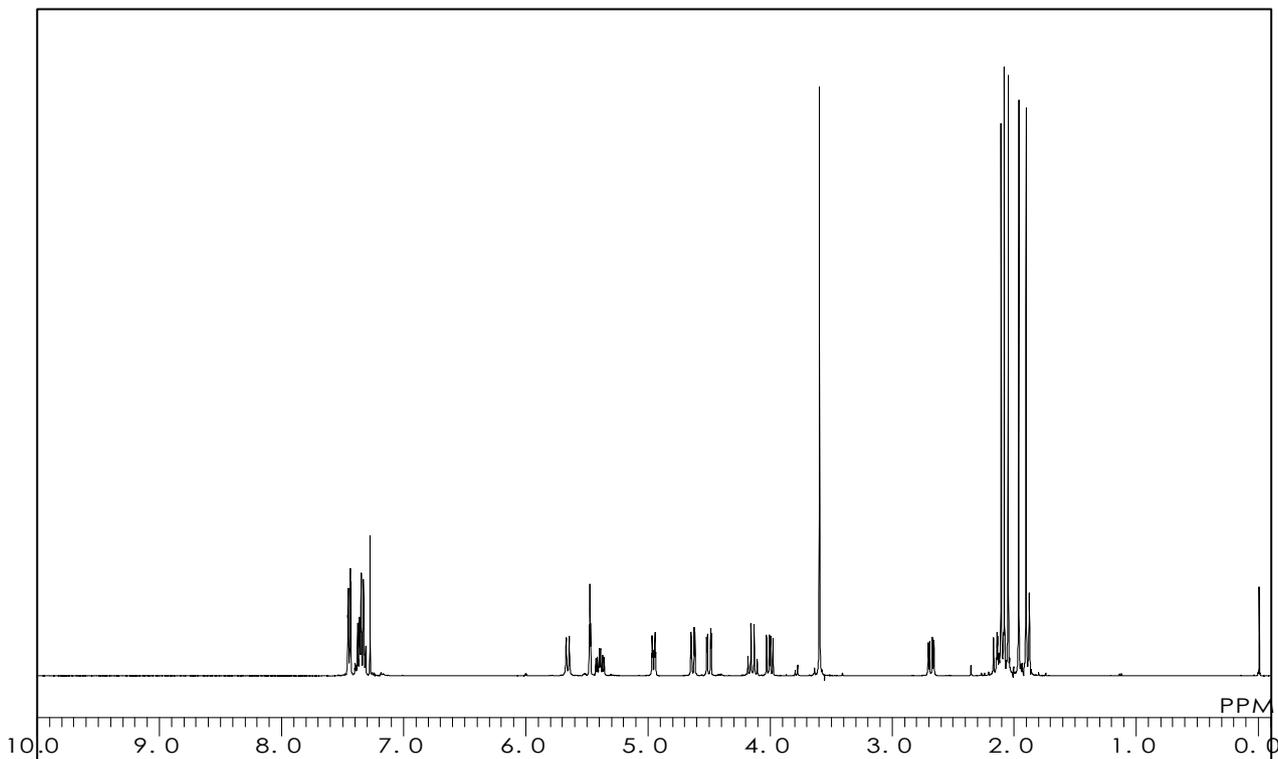
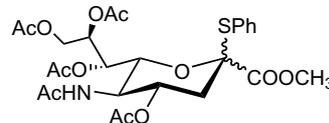
Methyl 5-Acetamido-4,7,8,9-tetra-O-acetyl-3,5-dideoxy-2-S-phenyl-2-thio-D-glycero-D-galacto-2-nonulopyranosylonate

$C_{26}H_{33}NO_{12}S = 583.61$ [155155-64-9]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.4 °C



M2329

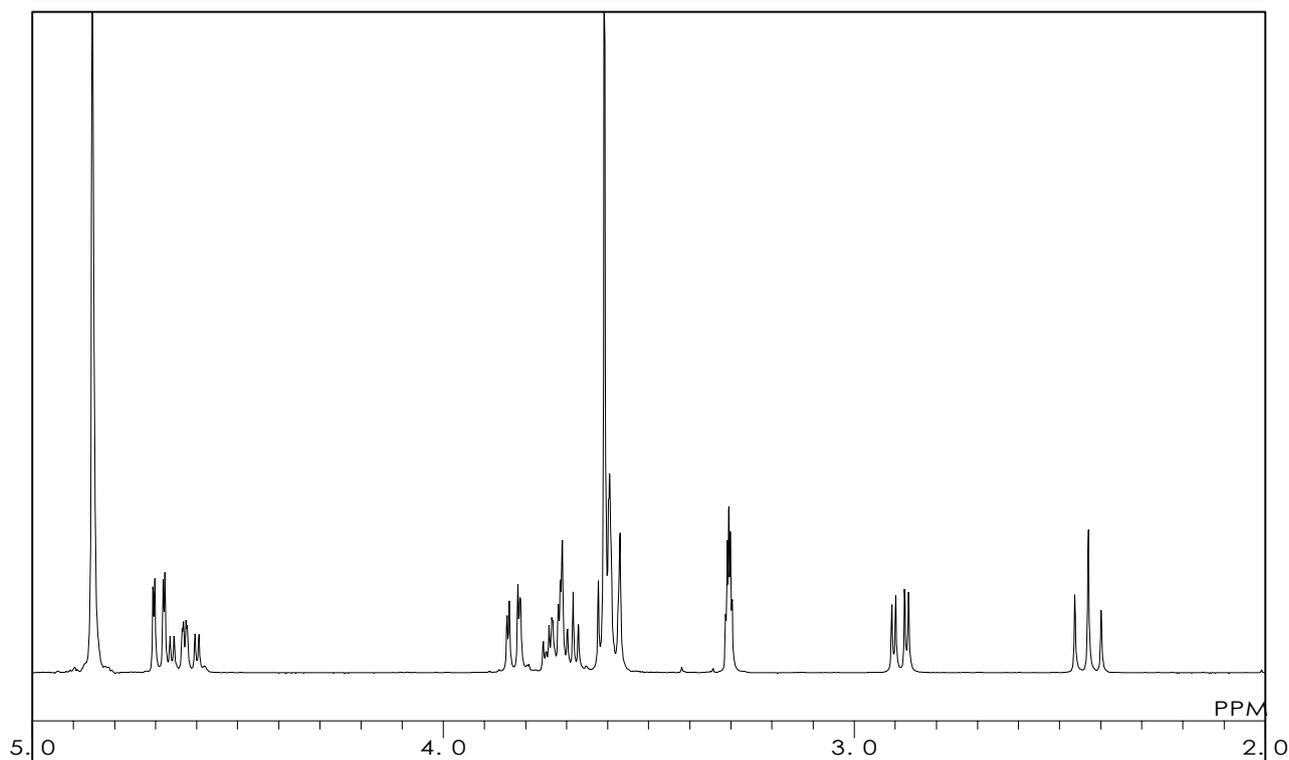
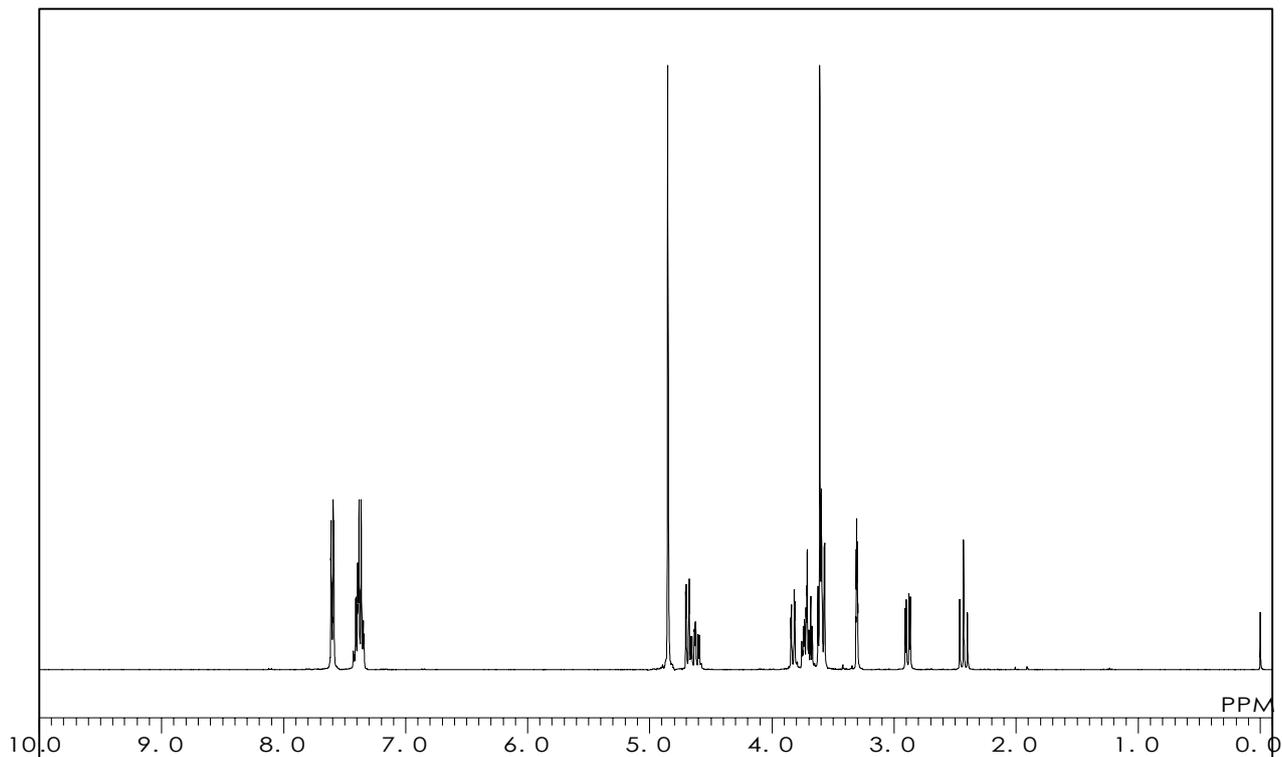
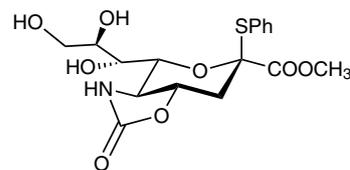
**Methyl 5-N,4-O-Carbonyl-3,5-dideoxy-2-S-phenyl-2-thio-
D-glycero-β-D-galacto-2-nonulopyranosylonate**

C₁₇H₂₁NO₈S = 399.41 [934591-79-4]

Solvent : CD₃OD

Internal Standard : Si(CH₃)₄

Measured Temperature : 23.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M2695

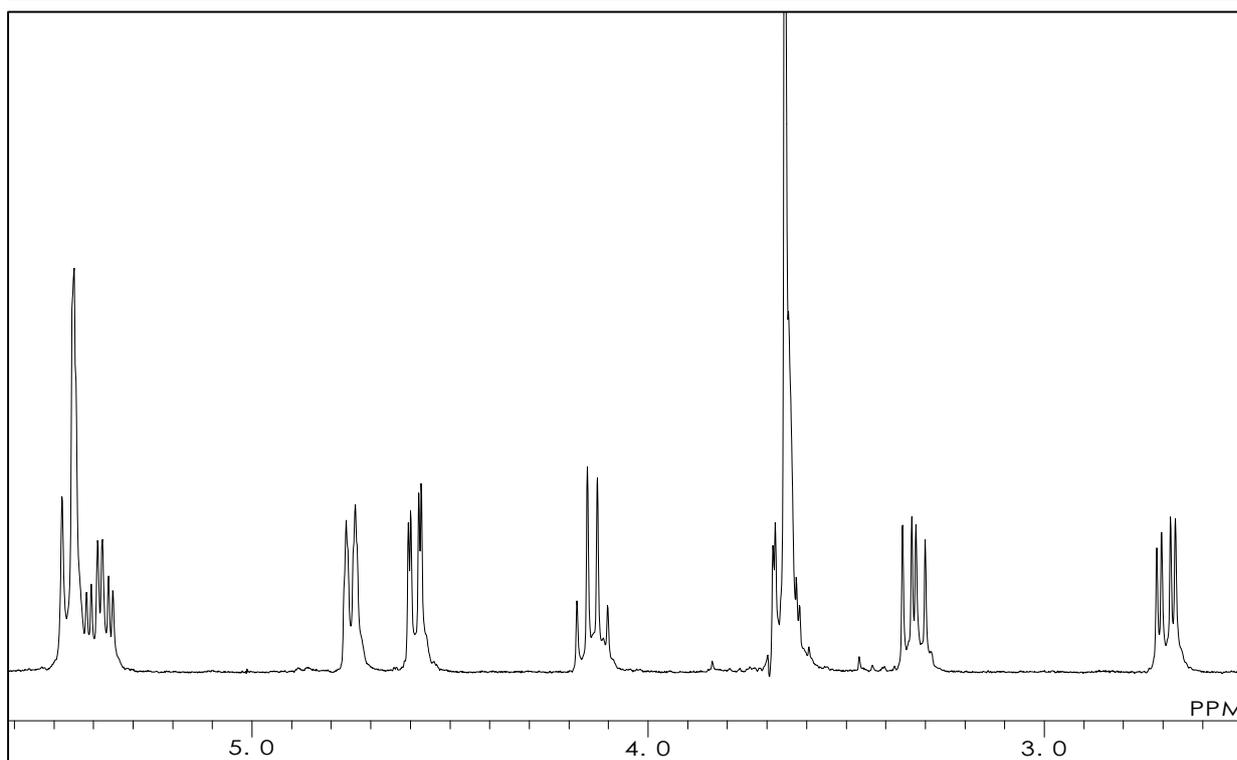
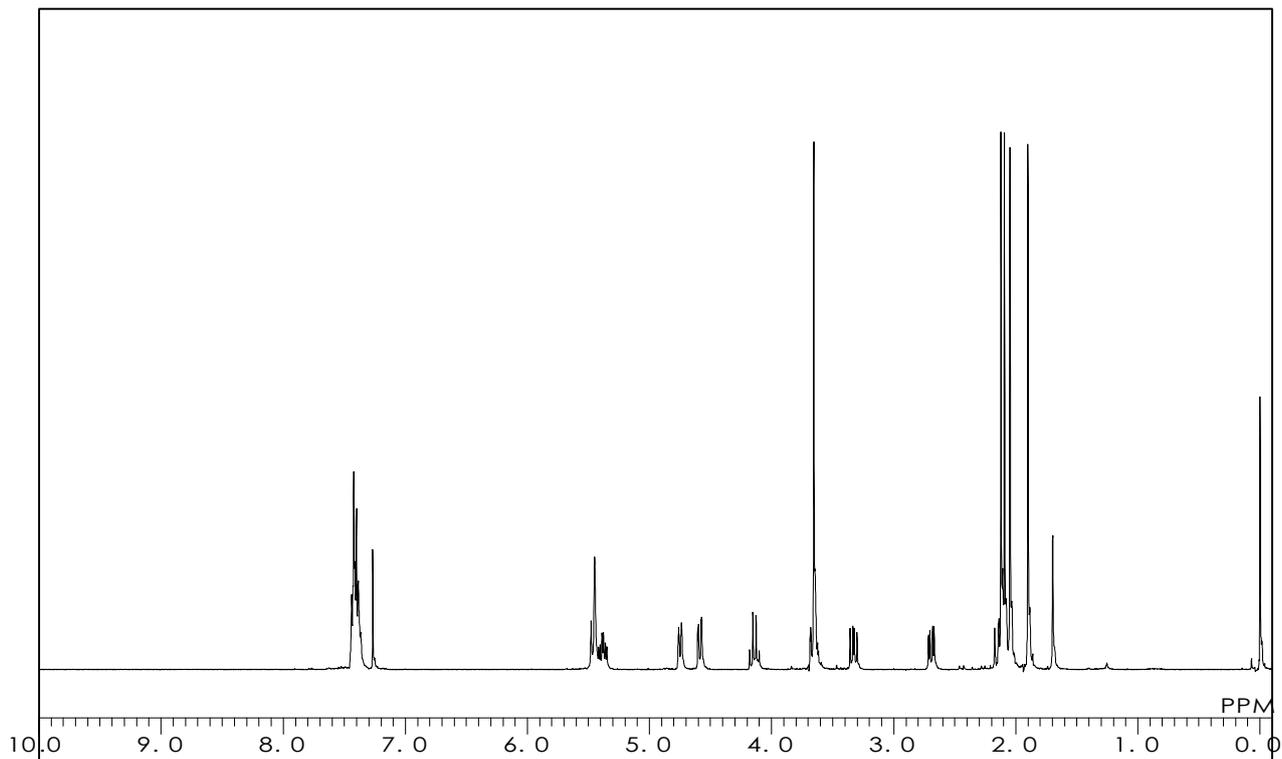
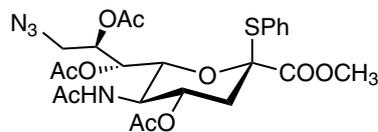
Methyl (Phenyl 5-Acetamido-4,7,8-tri-O-acetyl-9-azido-3,5,9-trideoxy-2-thio- β -D-galacto-2-nonulopyranosid)onate

$C_{24}H_{30}N_4O_{10}S = 566.58$ [219814-65-0]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.0 °C



M2696

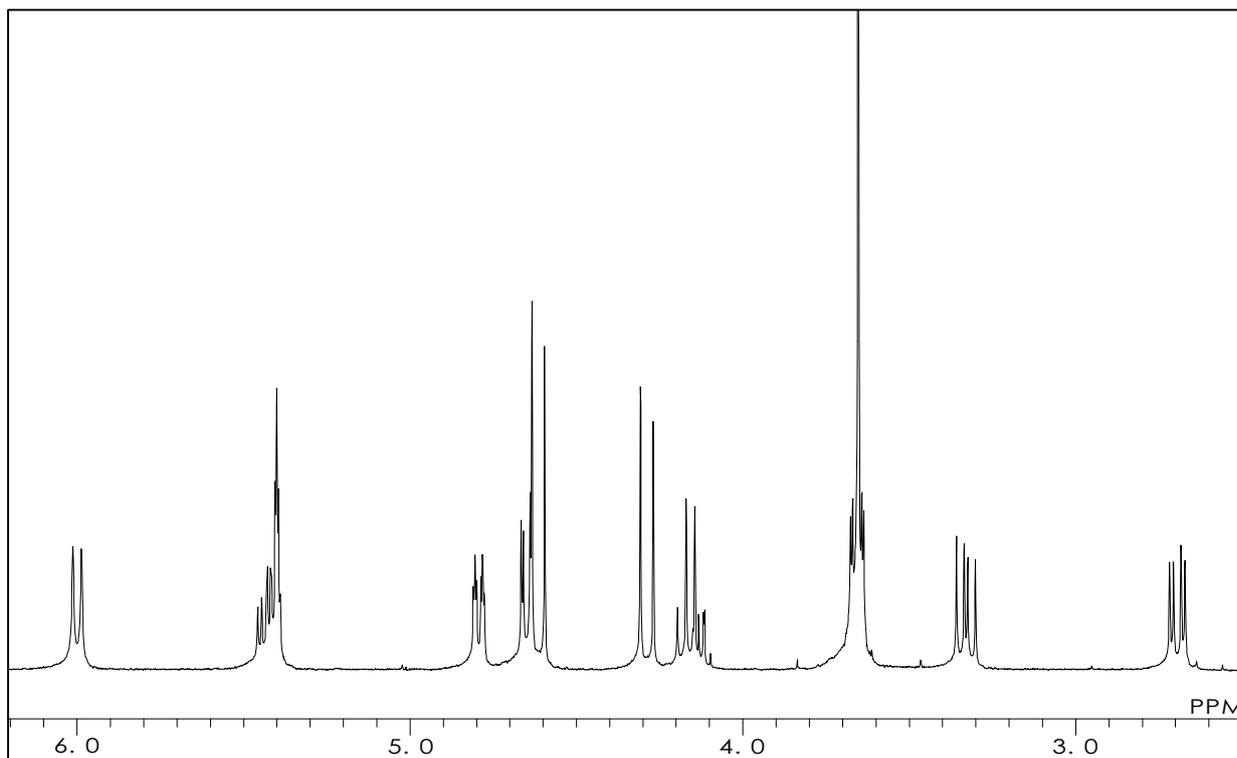
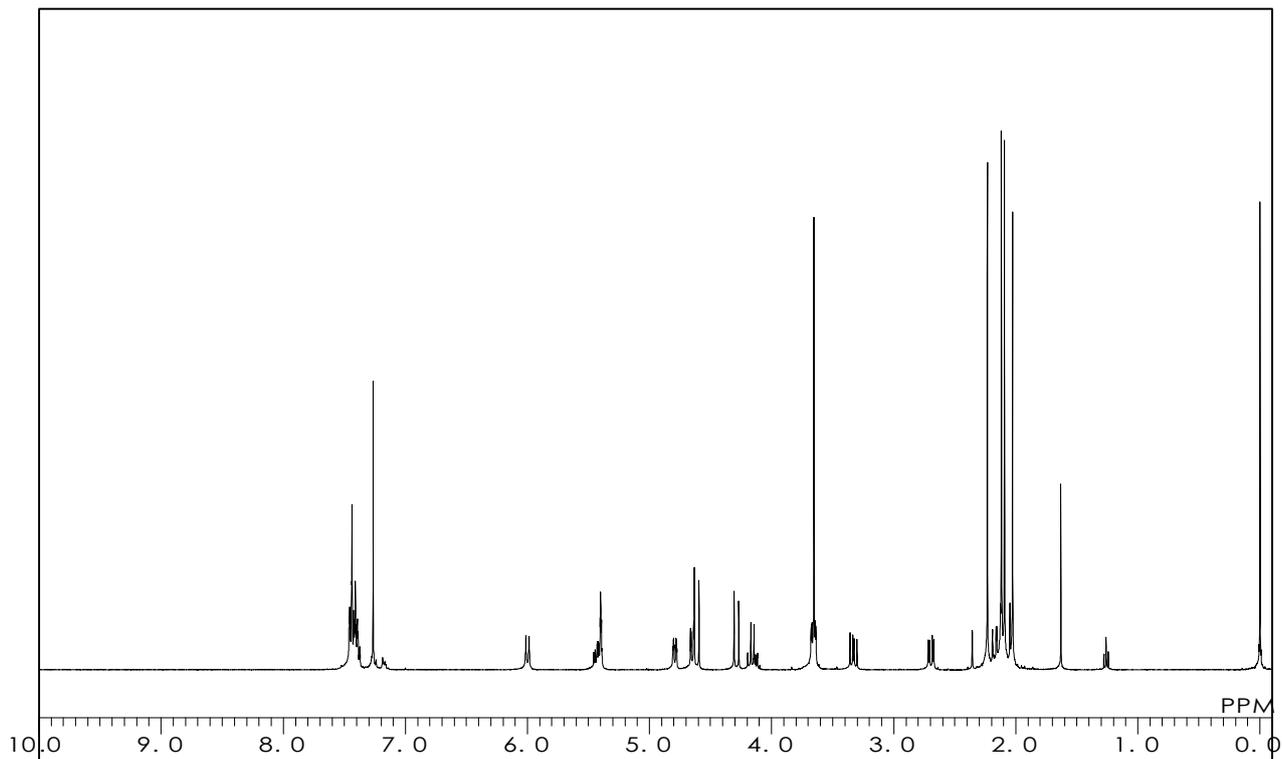
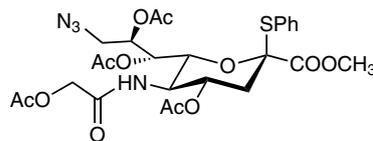
Methyl (Phenyl 5-Acetoxyacetamido-4,7,8-tri-O-acetyl-9-azido-3,5,9-trideoxy-2-thio-D-glycero-β-D-galacto-2-nonulopyranosid)onate

C₂₆H₃₂N₄O₁₂S = 624.62 [1195053-25-8]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M2330

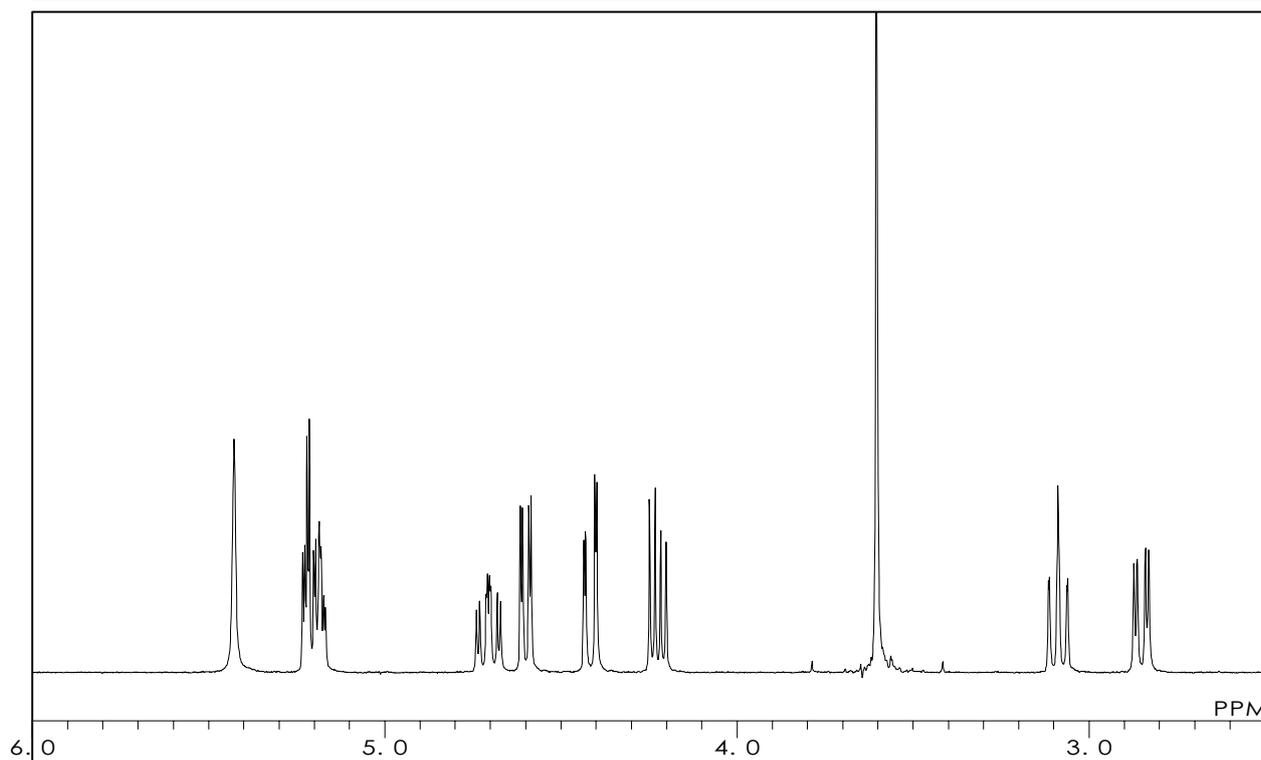
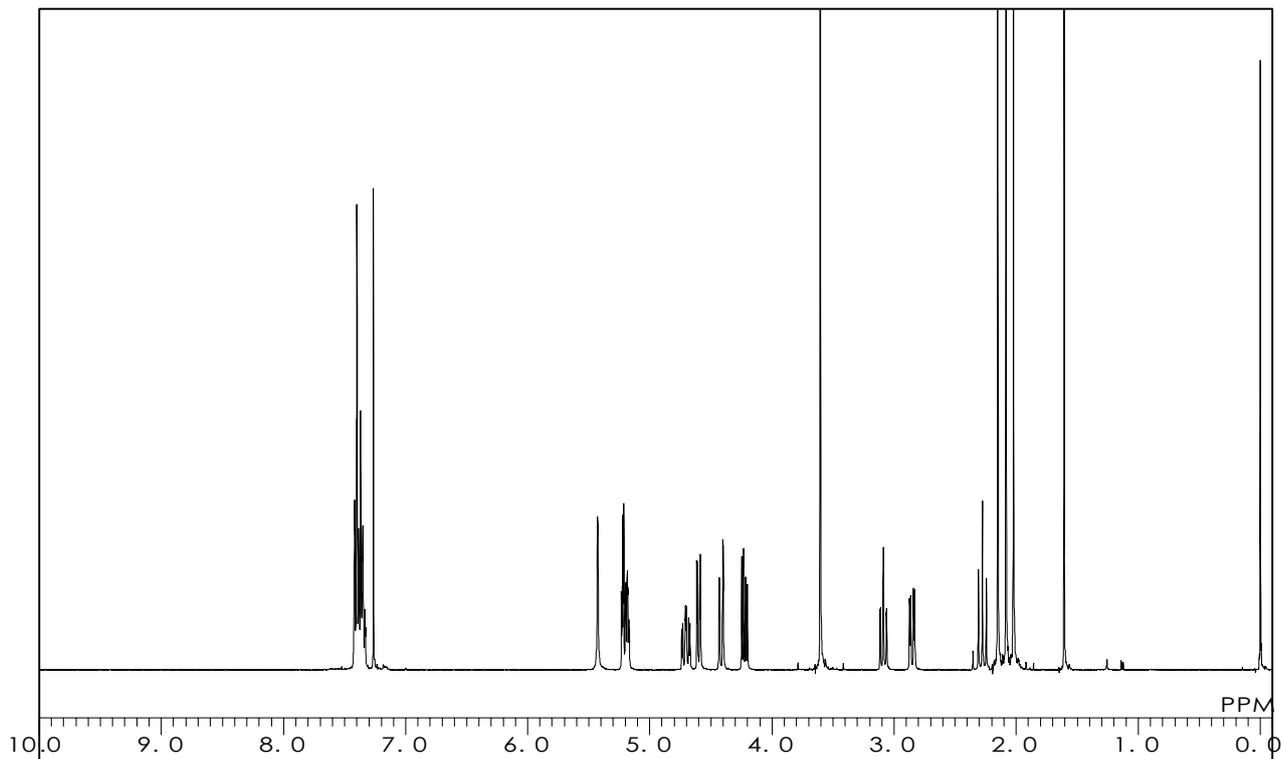
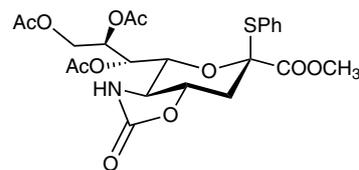
Methyl 7,8,9-Tri-O-acetyl-5-N,4-O-carbonyl-3,5-dideoxy-2-S-phenyl-2-thio-D-glycero-β-D-galacto-2-nonulopyranosylonate

C₂₃H₂₇NO₁₁S = 525.53

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 27.7 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

A1822

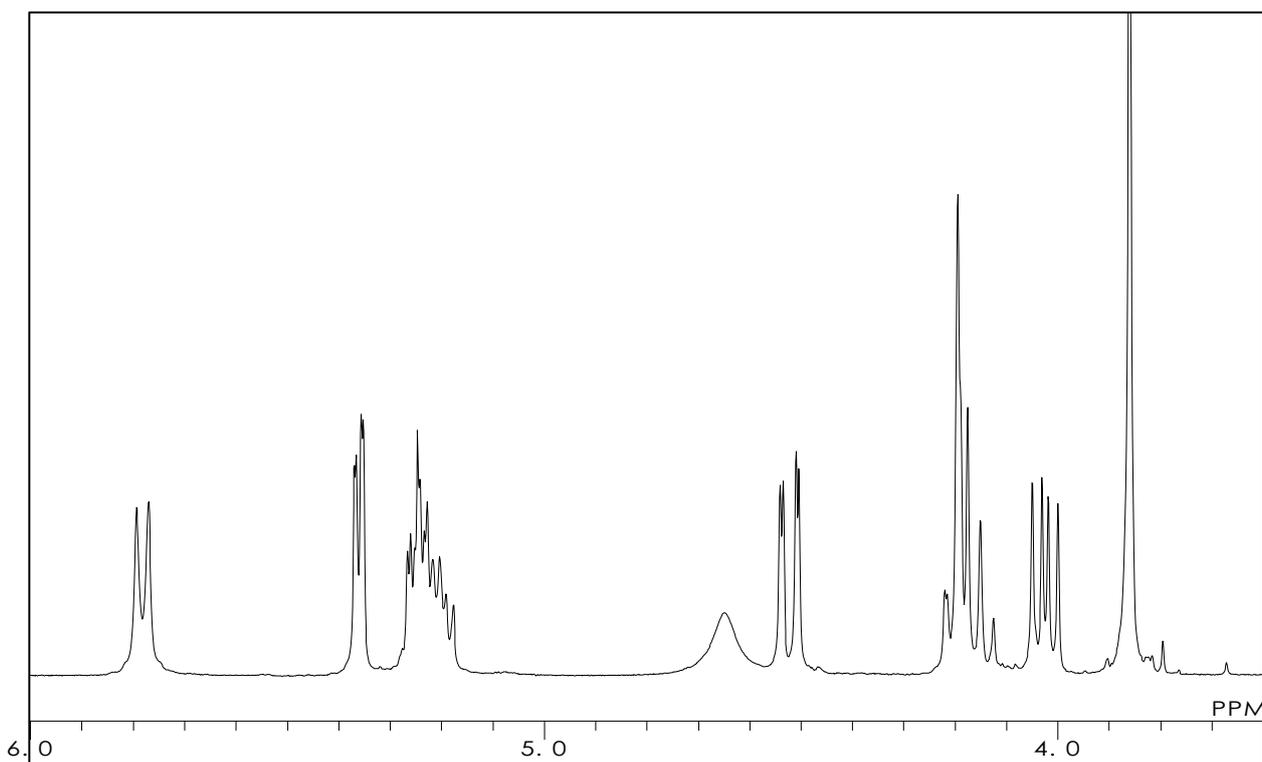
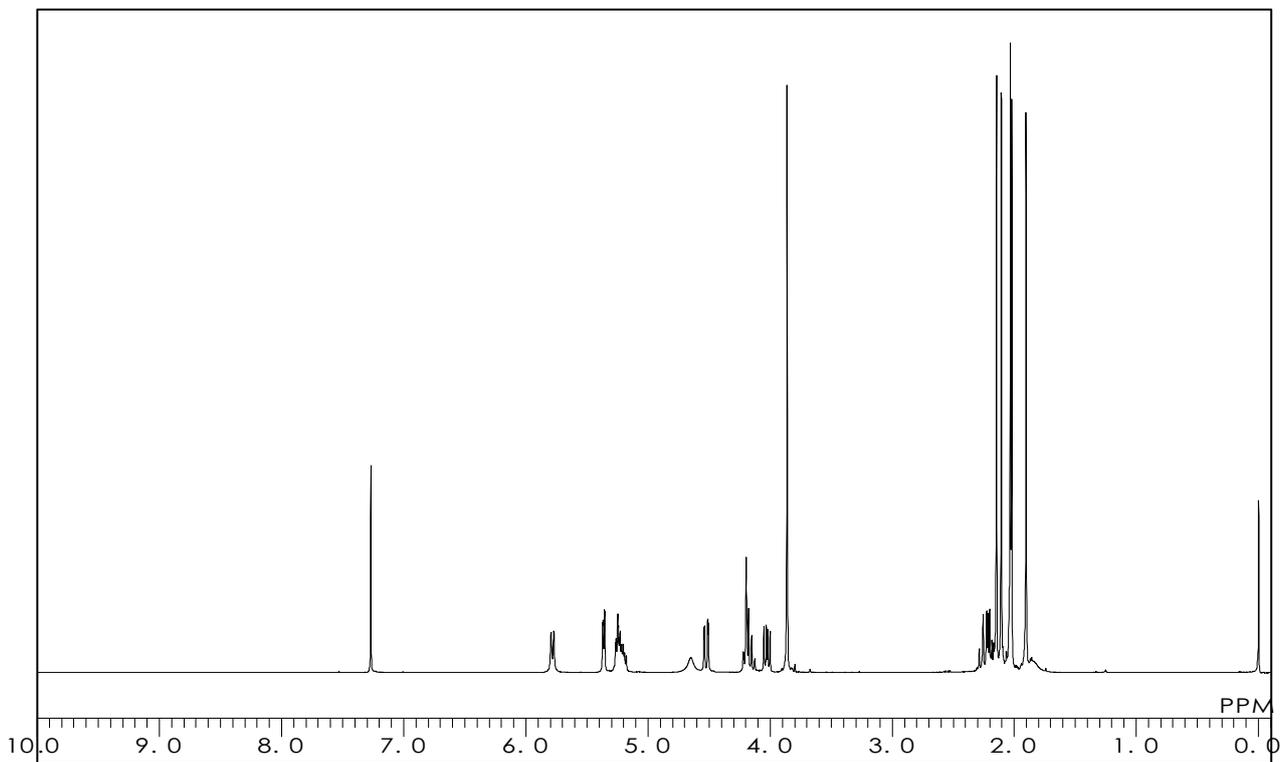
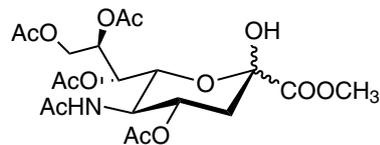
4,7,8,9-Tetra-O-acetyl-N-acetylneuraminic Acid Methyl Ester

$C_{20}H_{29}NO_{13} = 491.45$ [84380-10-9]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.5 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

A2630

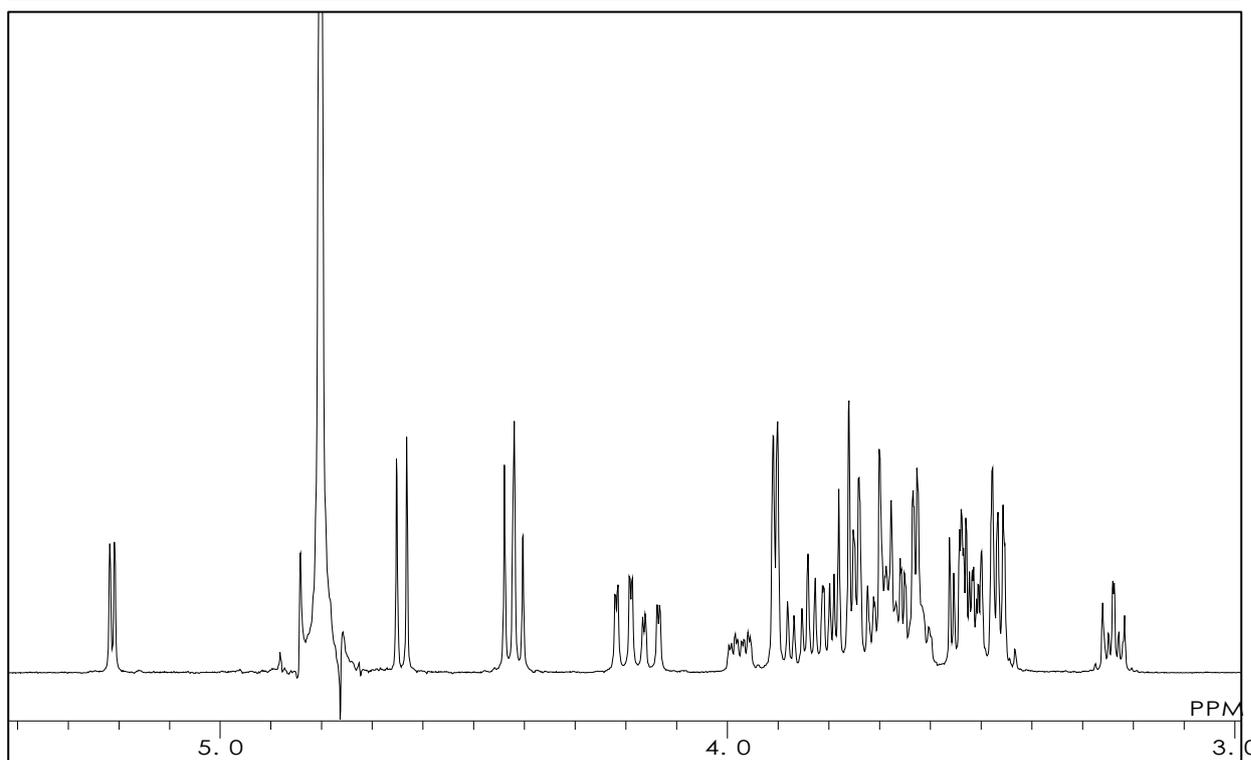
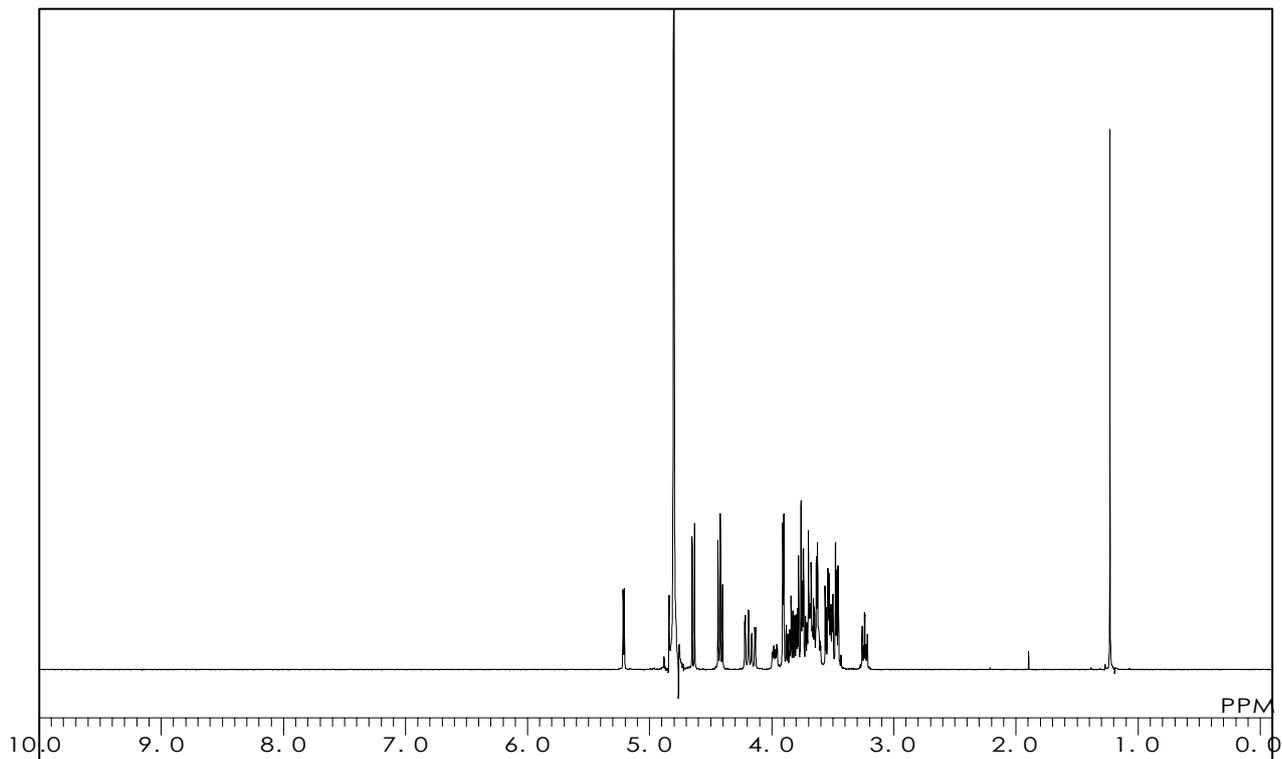
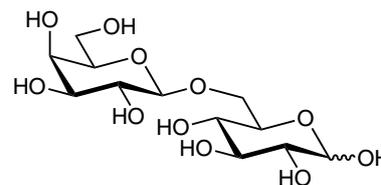
Allolactose

$C_{12}H_{22}O_{11}$ = 342.30 [28447-39-4]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.3 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

D4215

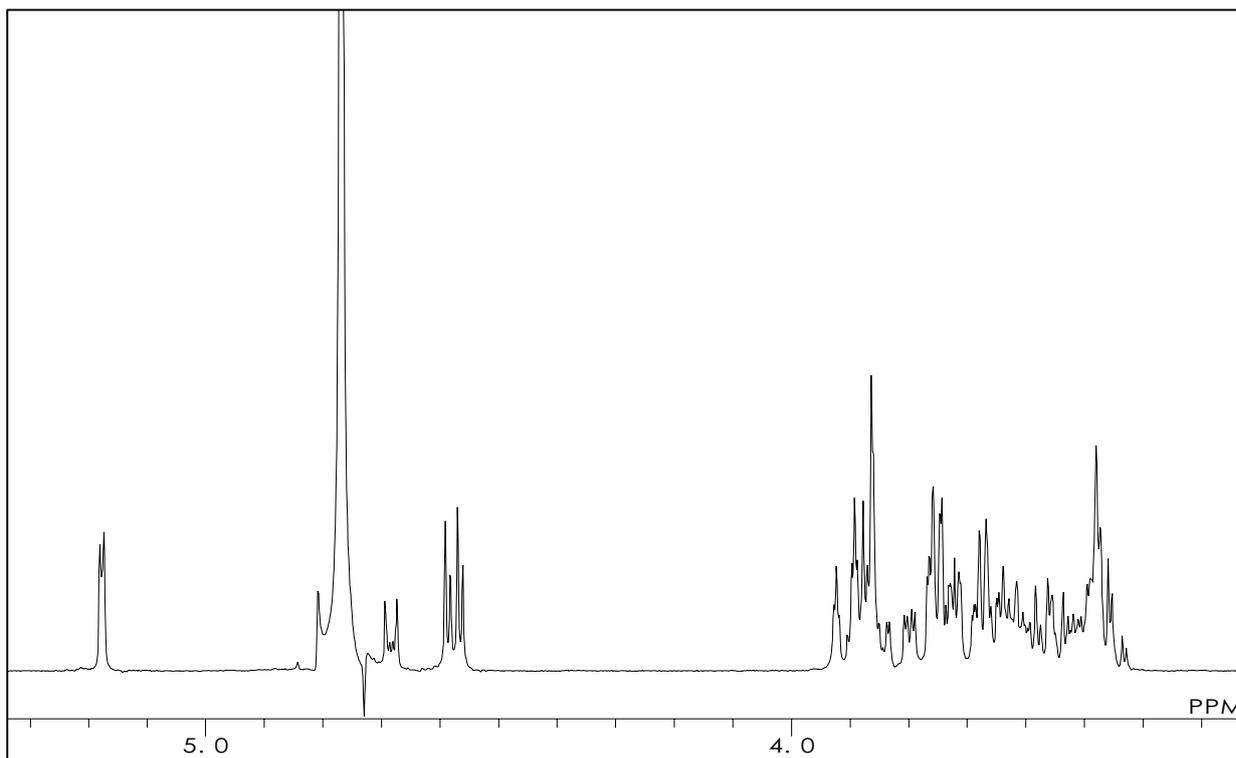
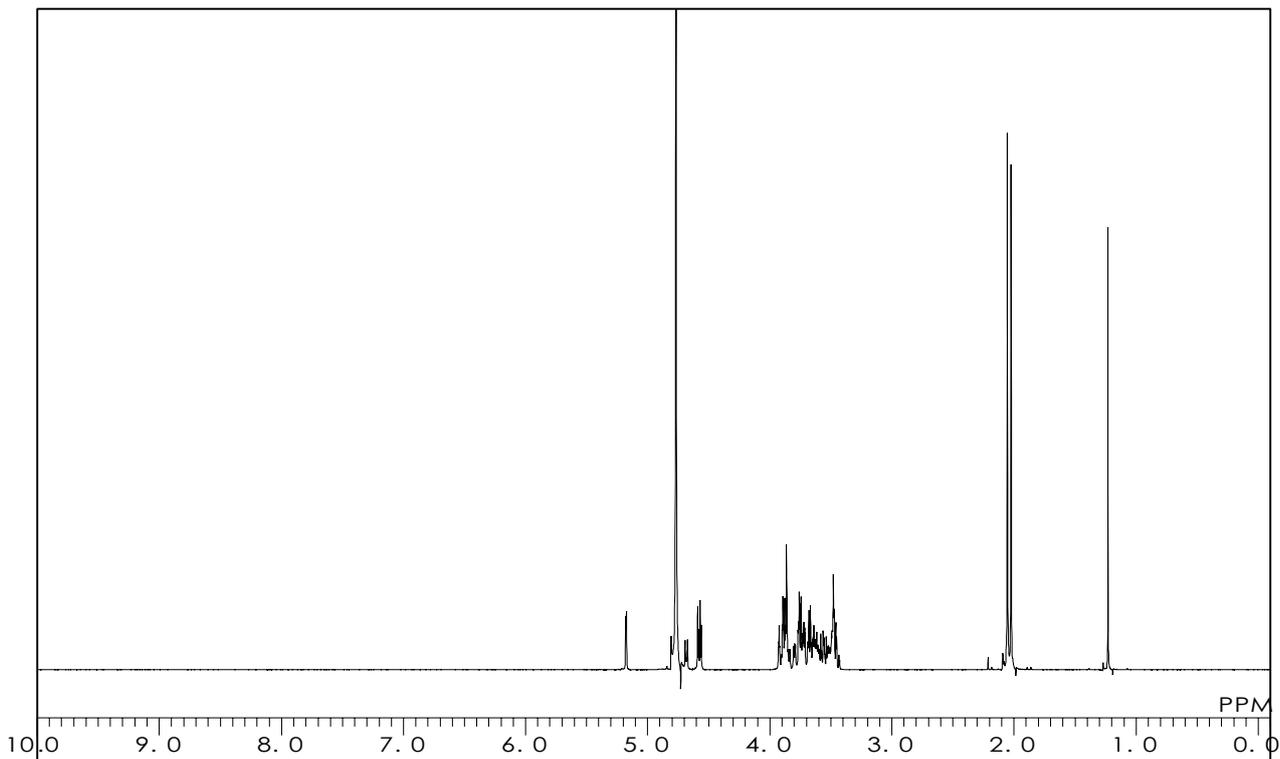
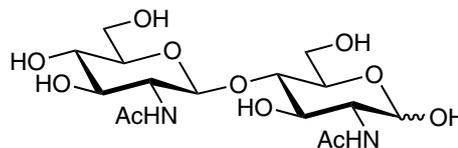
N,N'-Diacetylchitobiose

$C_{16}H_{28}N_2O_{11} = 424.40$ [35061-50-8]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.6 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

D5372

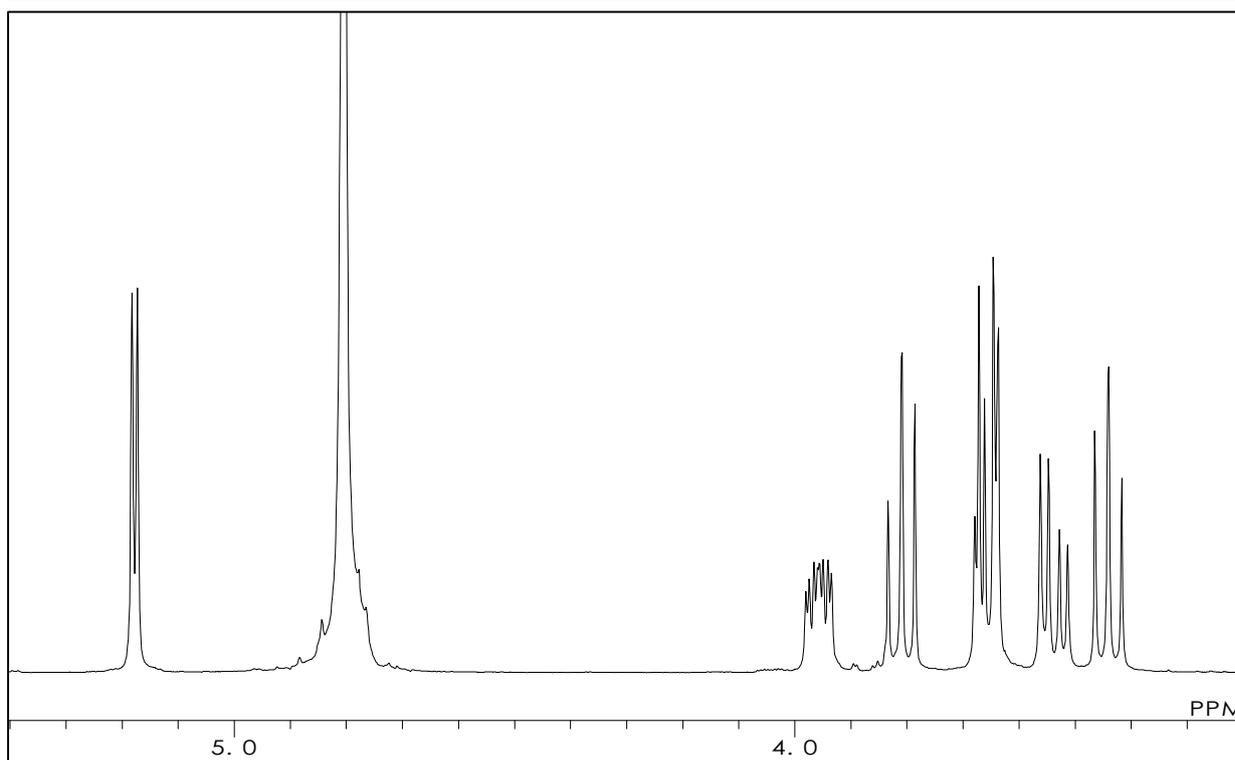
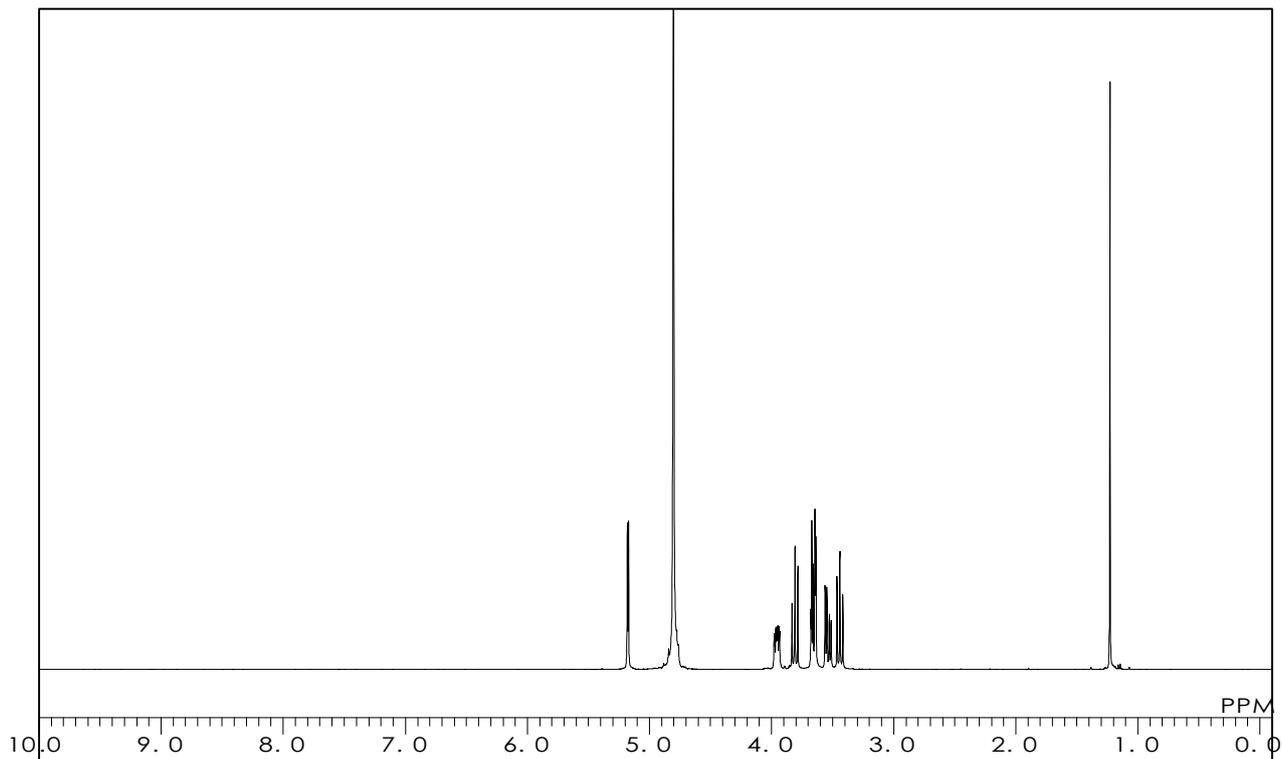
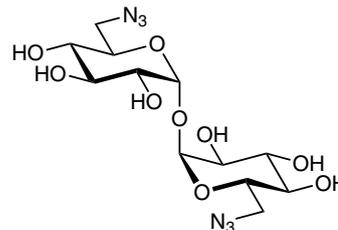
6,6'-Diazido-6,6'-dideoxytrehalose

$C_{12}H_{20}N_6O_9$, = 392.33 [18933-88-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.1 °C



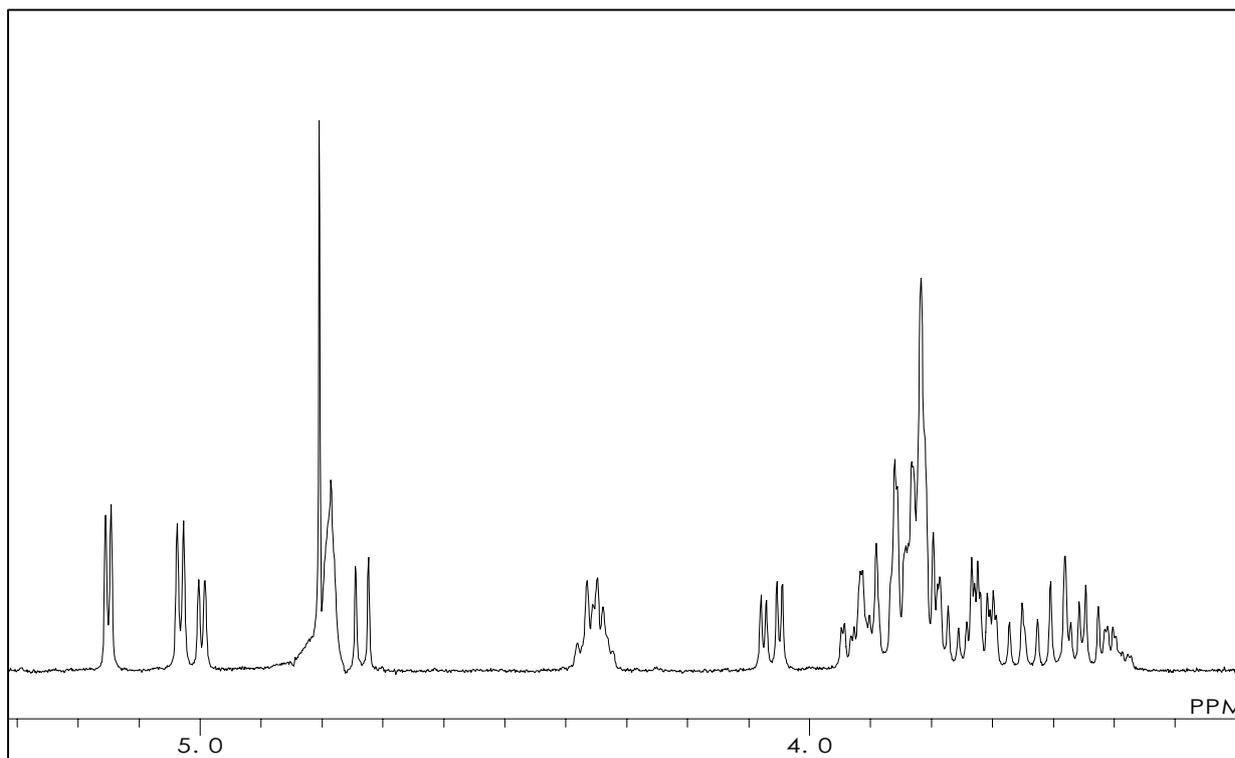
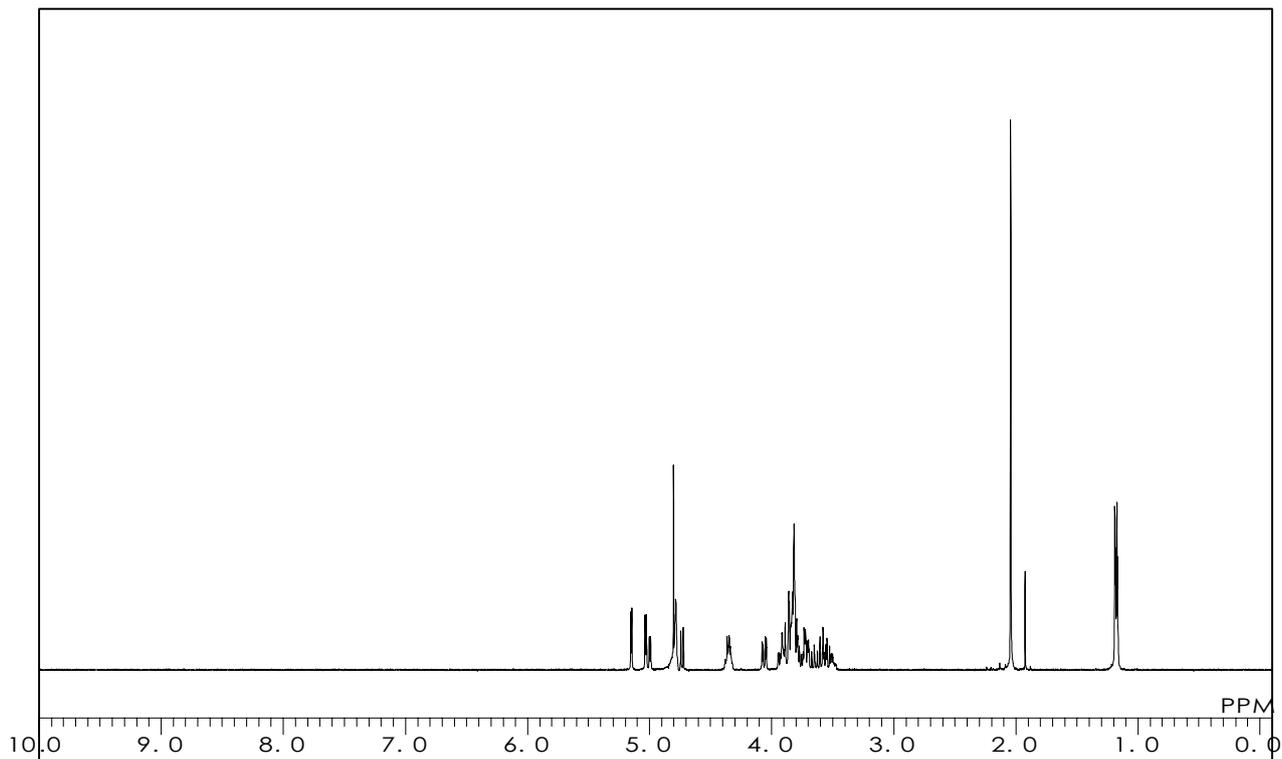
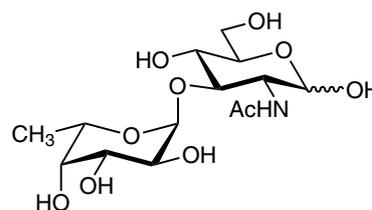
F1030

Fuc α (1-3)GlcNAc

$C_{14}H_{25}NO_{10}$ = 367.35 [52630-68-9]

Solvent : D_2O

Measured Temperature : 24.1 $^{\circ}C$



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

F0897

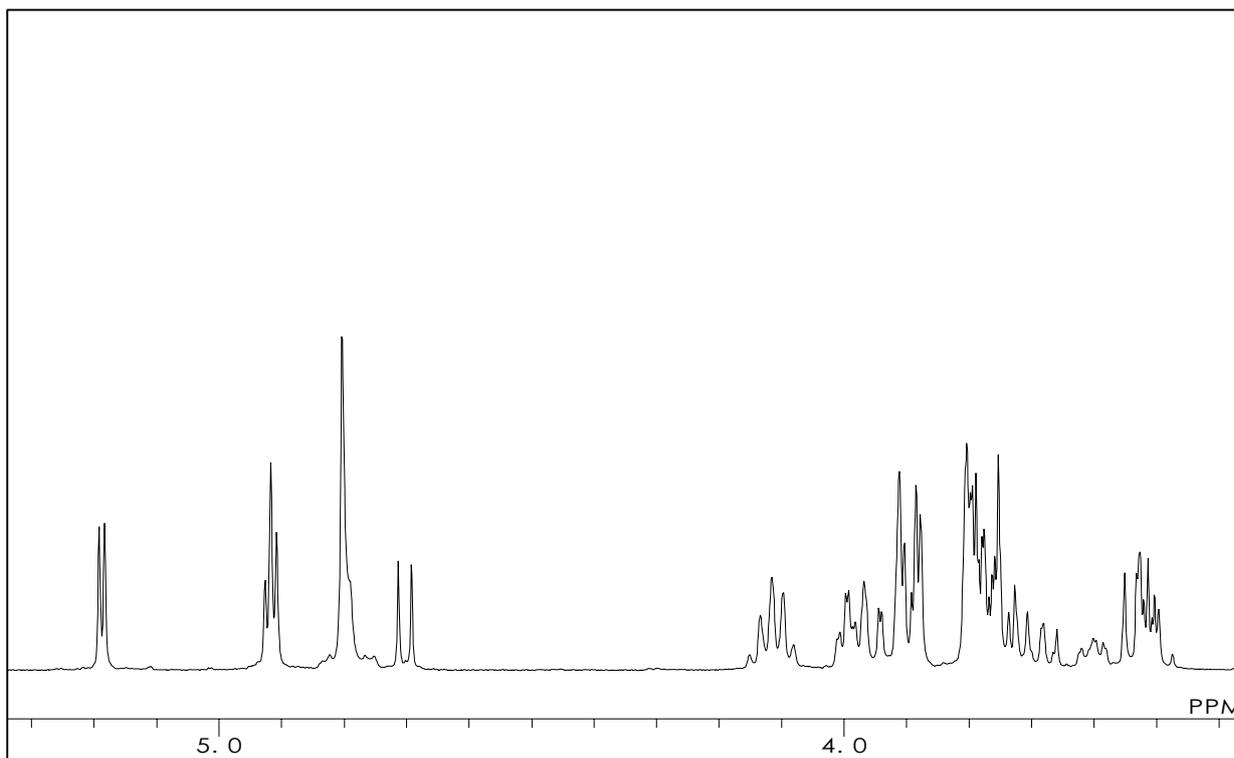
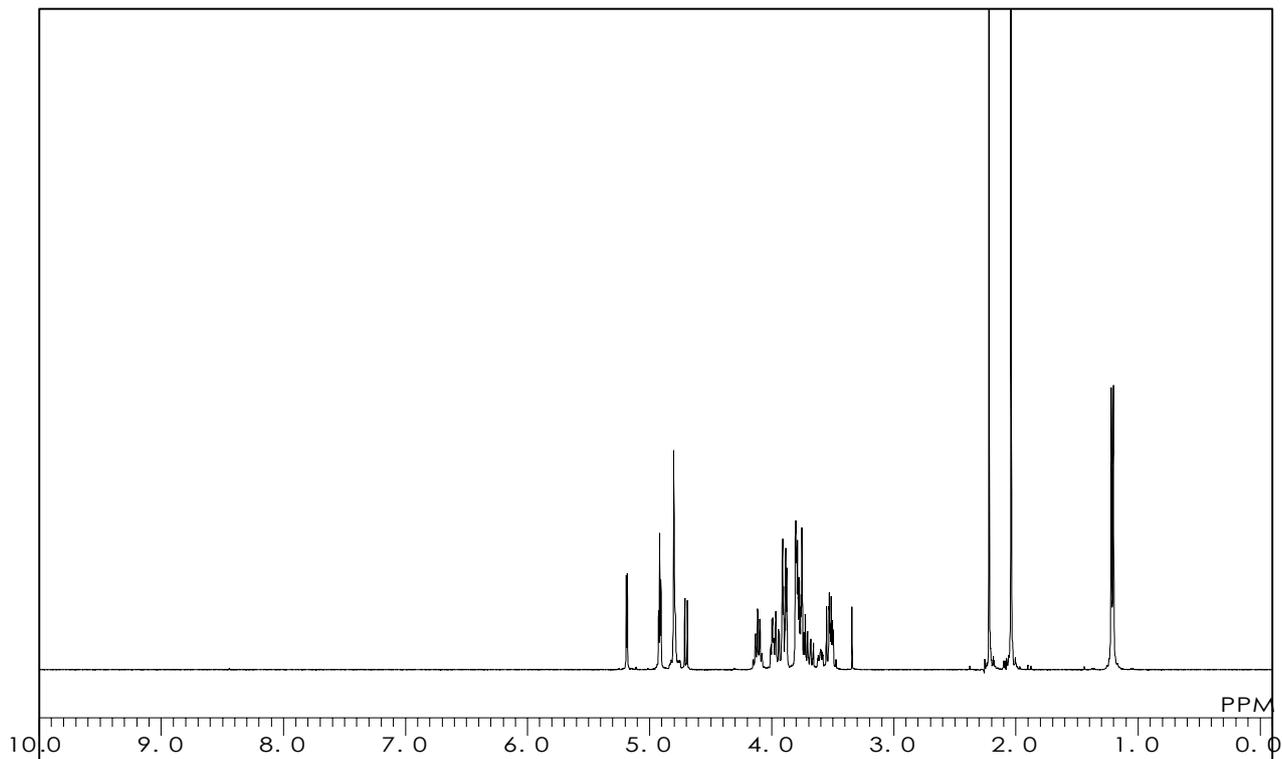
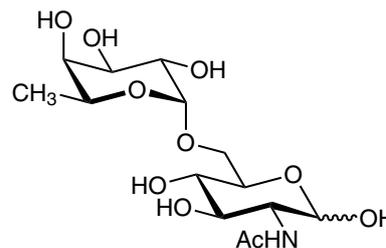
Fuc α (1-6)GlcNAc

$C_{14}H_{25}NO_{10}$ = 367.35 [33639-80-4]

Solvent : D_2O

Internal Standard : Acetone (δ 2.22)

Measured Temperature : 22.0 °C



F1021

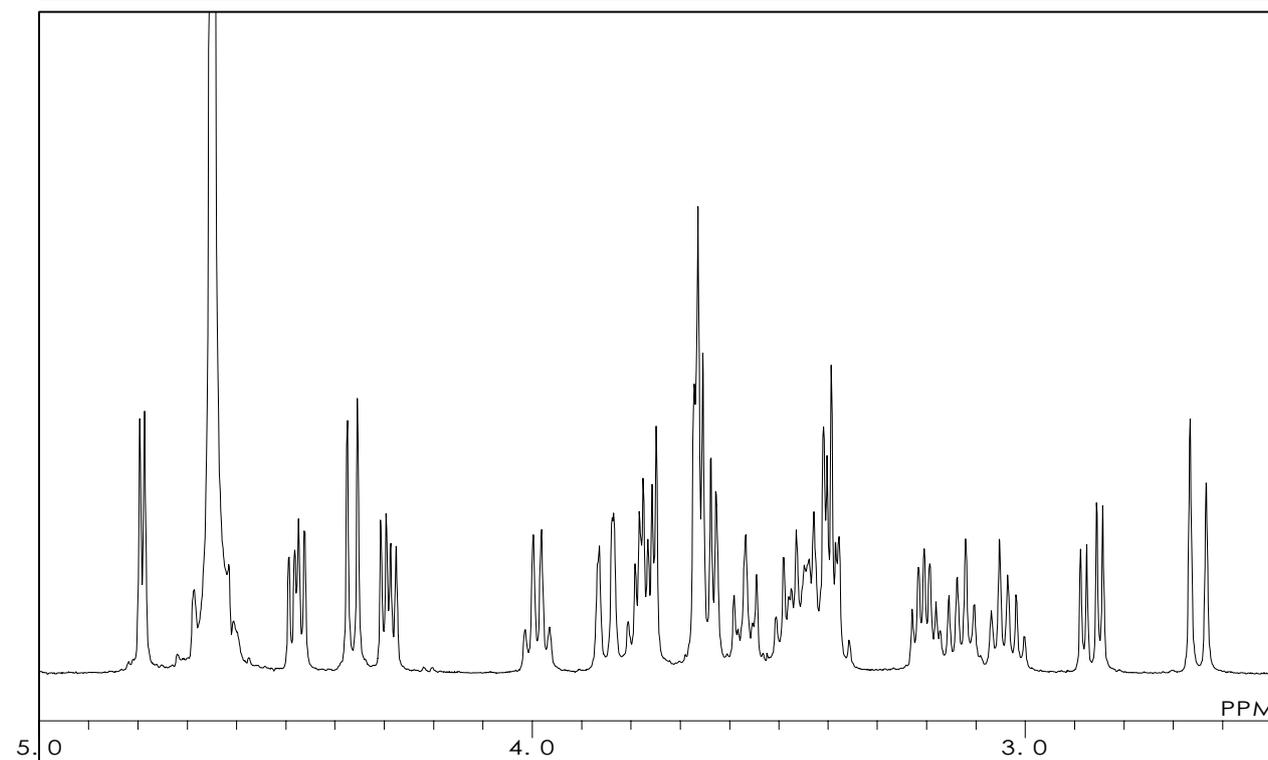
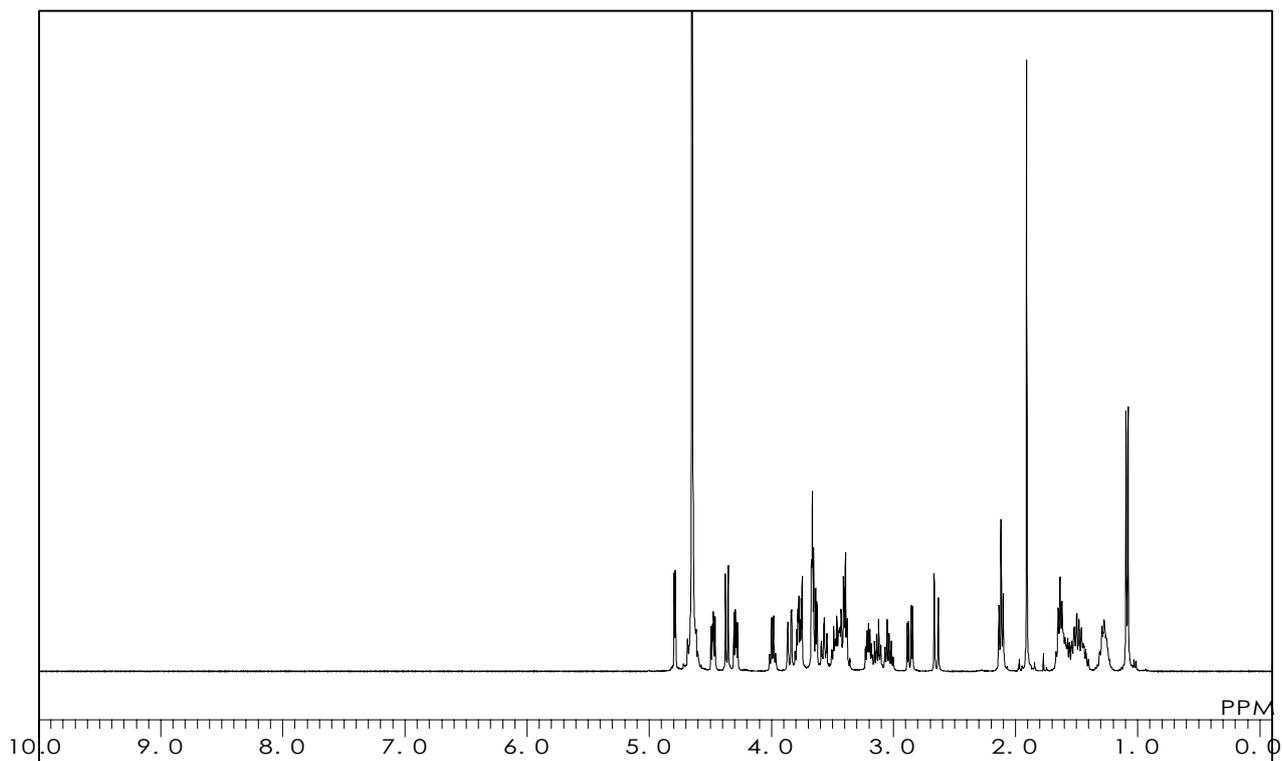
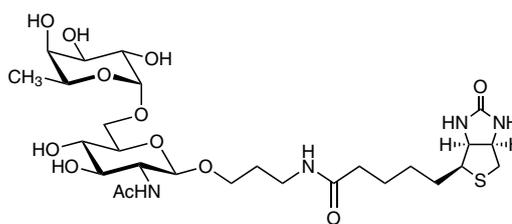
Fuc α (1-6)GlcNAc- β -propylamido-biotin

$C_{27}H_{46}N_4O_{12}S = 650.74$

Solvent : D_2O

External Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0460

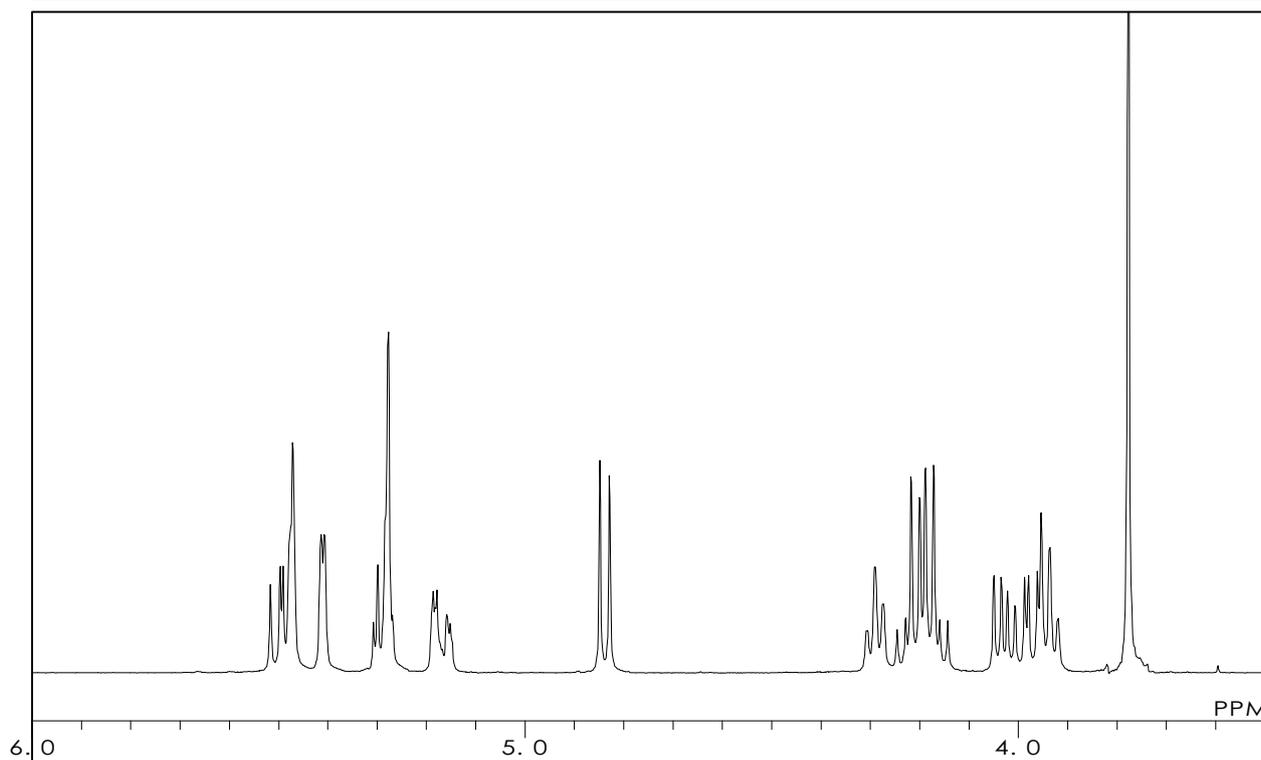
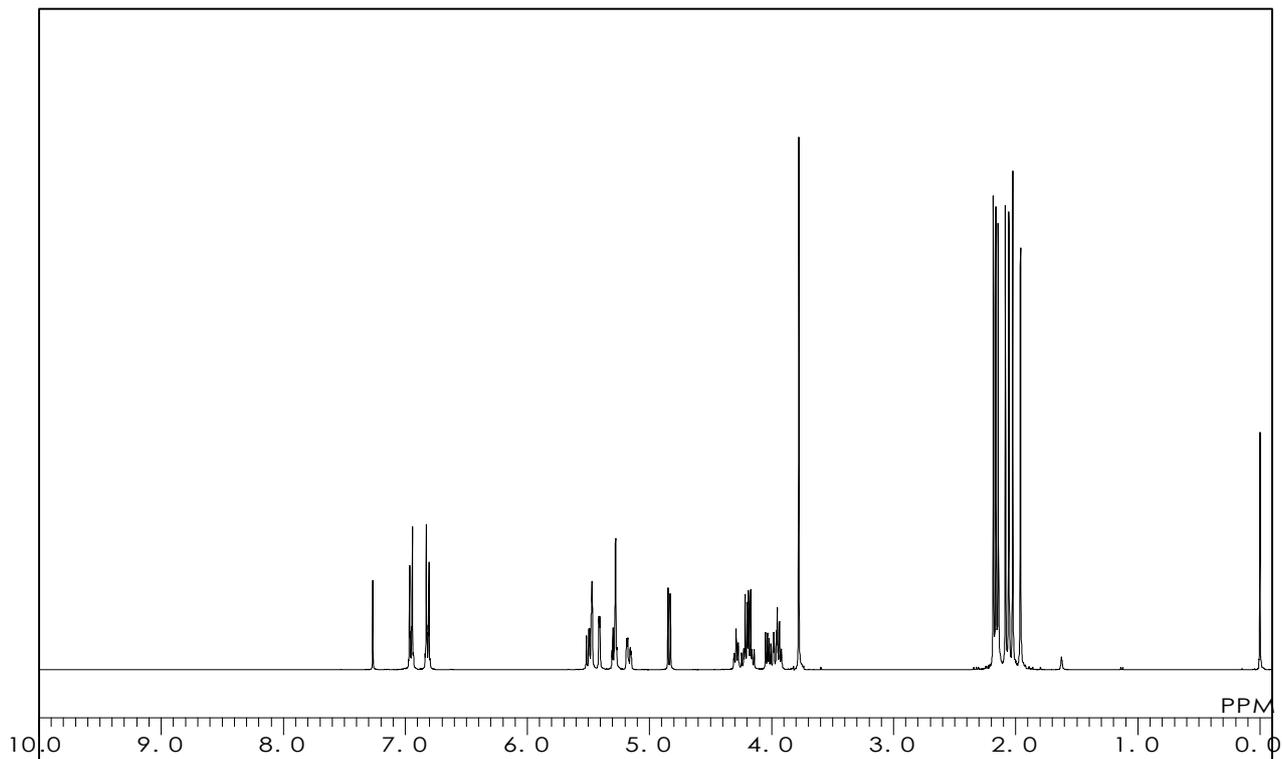
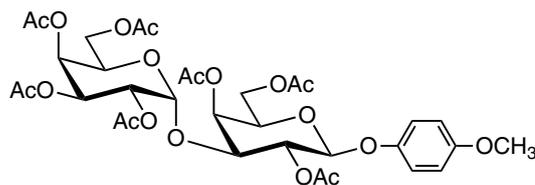
Gal[2346Ac] α (1-3)Gal[246Ac]- β -MP

$C_{33}H_{42}O_{19}$ = 742.68 [1253645-85-0]

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 22.7°C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0330

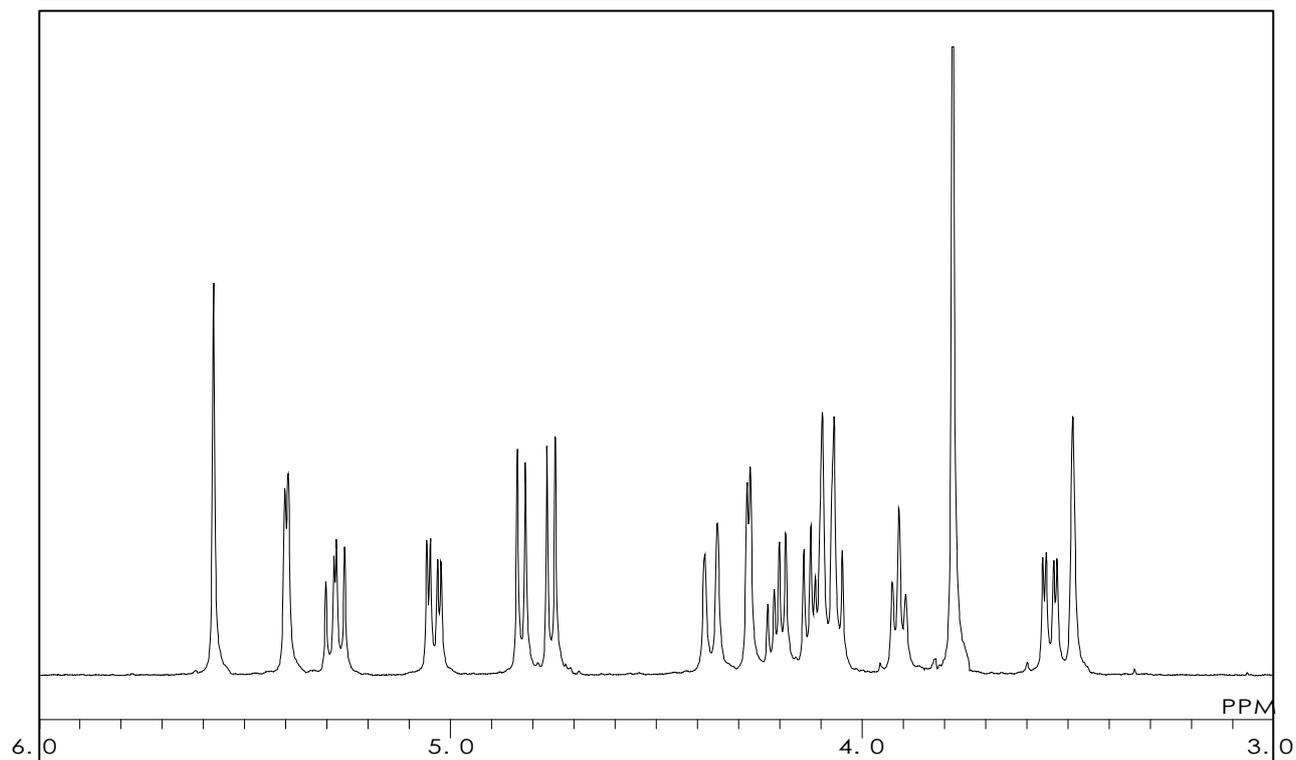
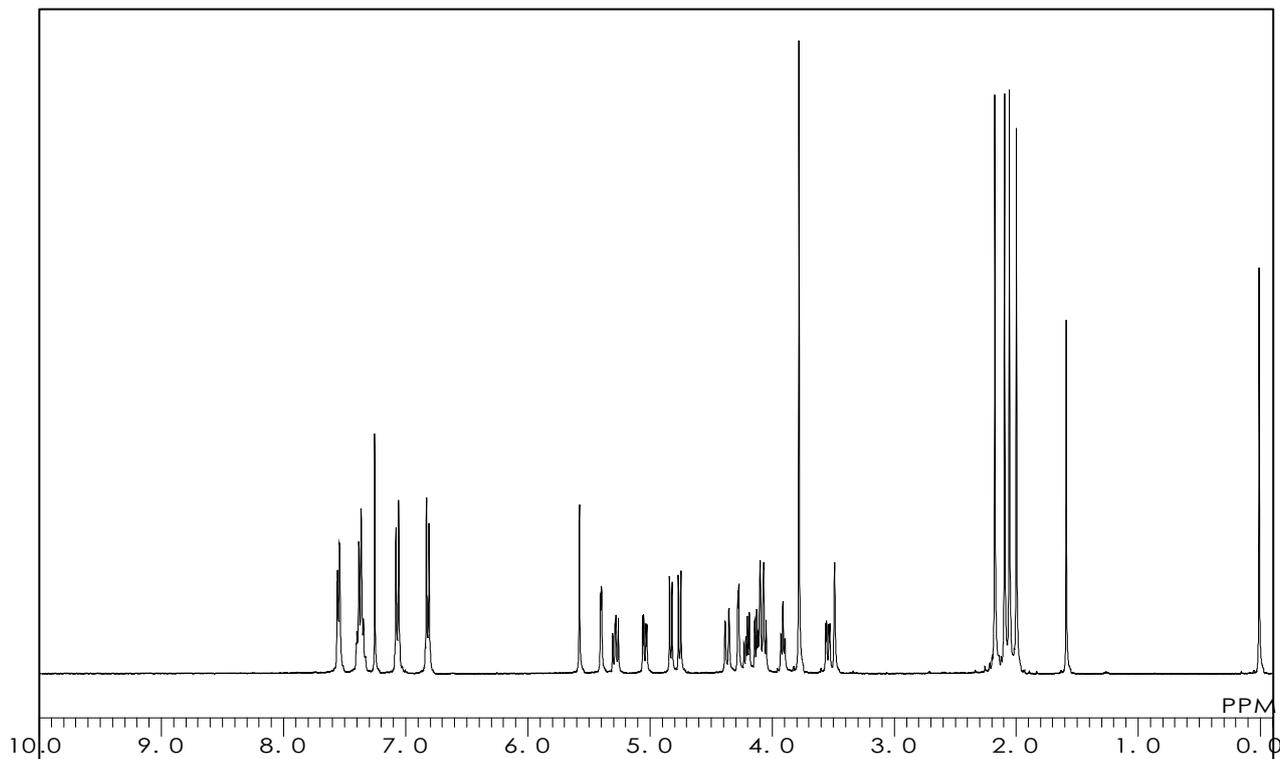
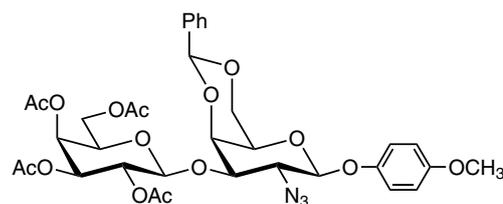
Gal[2346Ac] β (1-3)GalN₃[46Bzd]- β -MP

C₃₄H₃₉N₃O₁₅ = 729.69

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0329

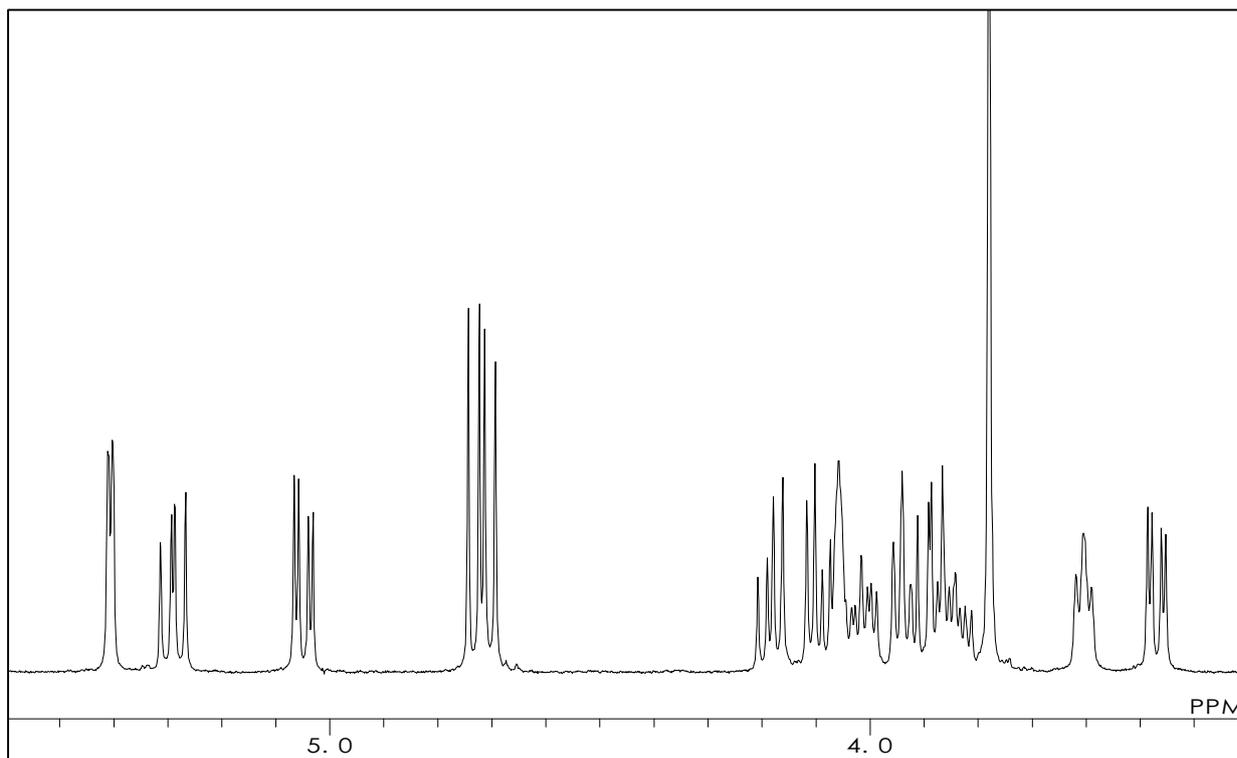
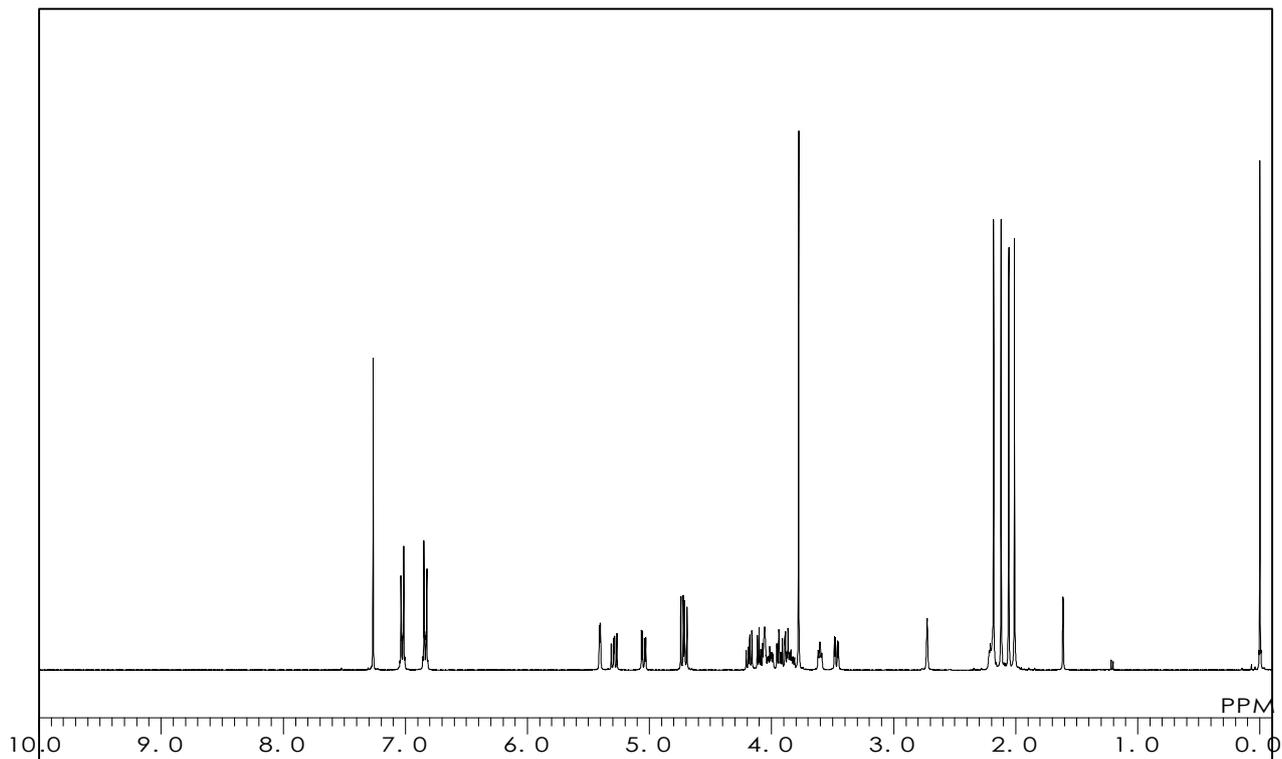
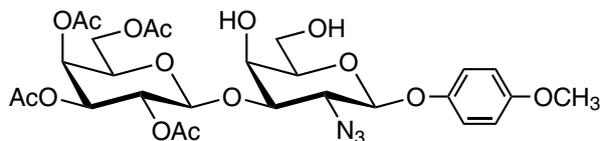
Gal[2346Ac] β (1-3)GalN₃- β -MP

C₂₇H₃₅N₃O₁₅ = 641.58

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 19.9 °C



G0309

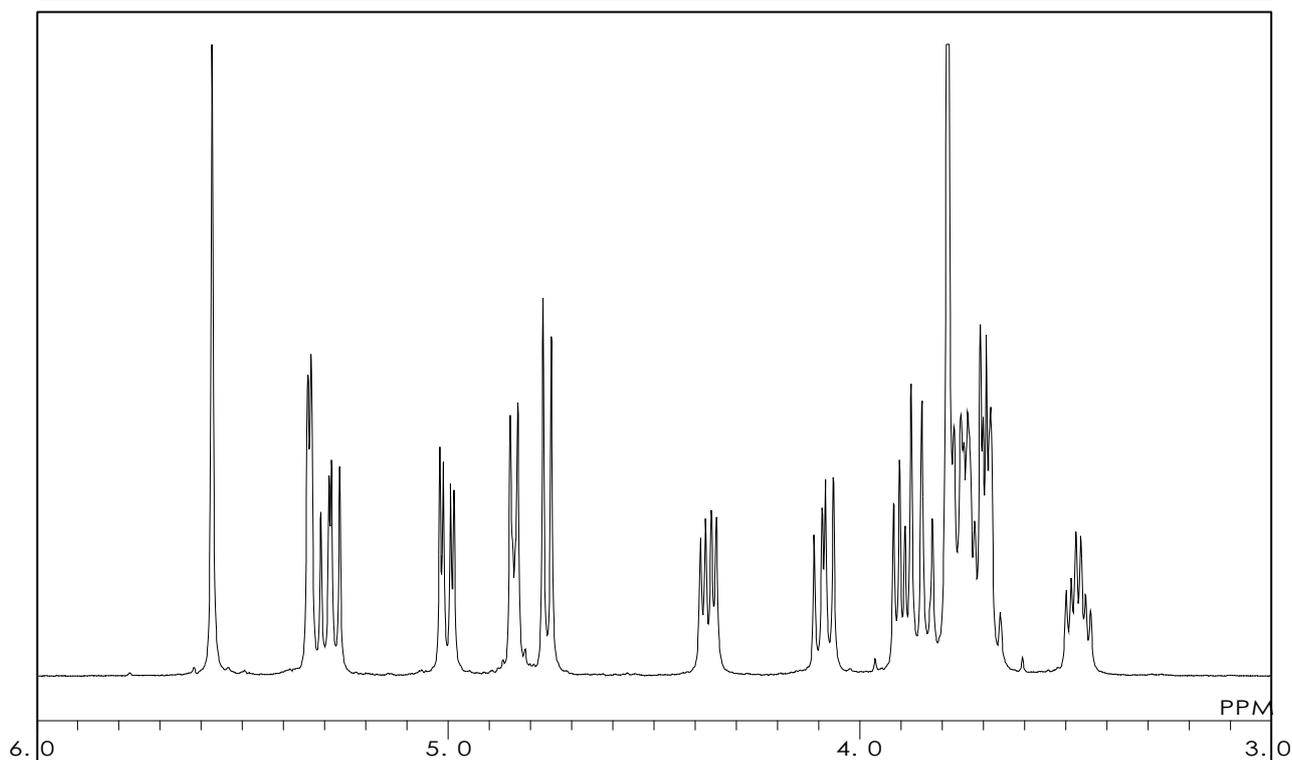
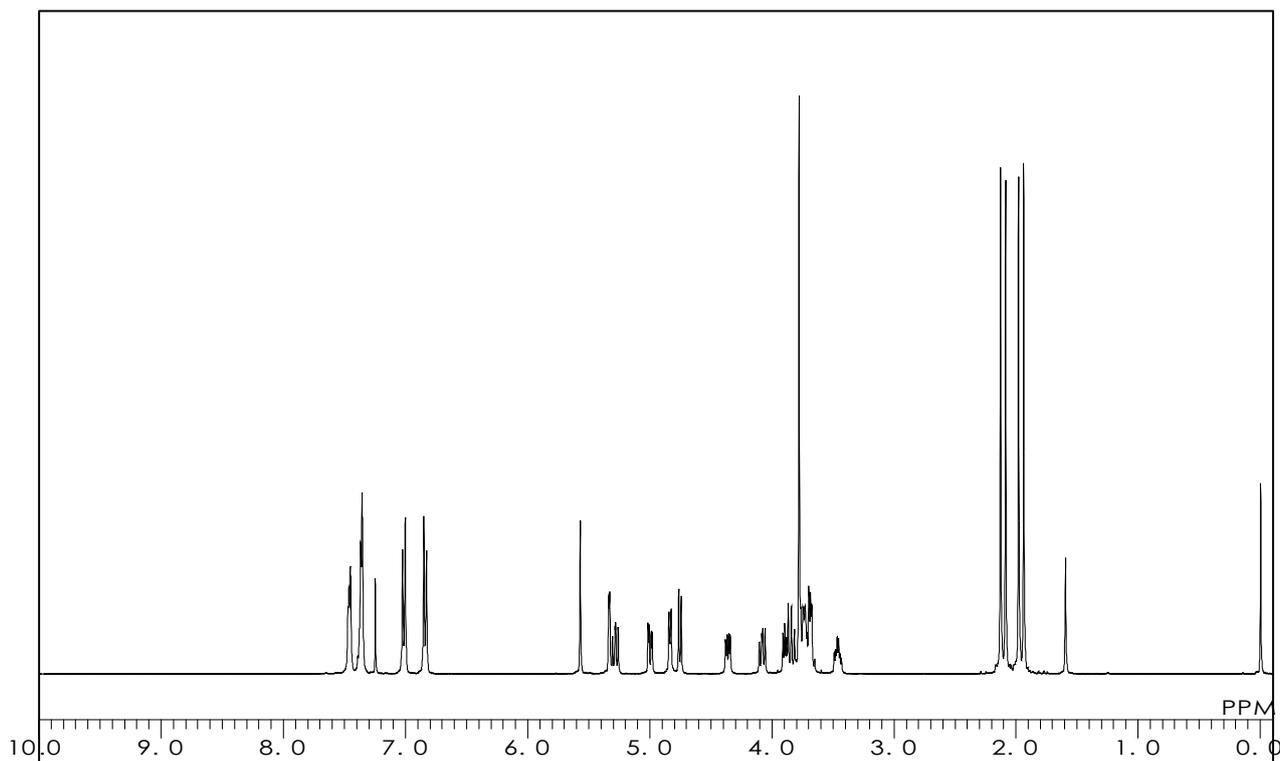
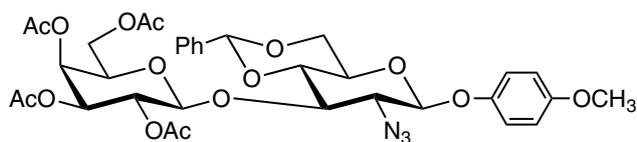
Gal[2346Ac] β (1-3)GlcN₃[46Bzd]- β -MP

C₃₄H₃₉N₃O₁₅ = 729.69

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.5 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0311

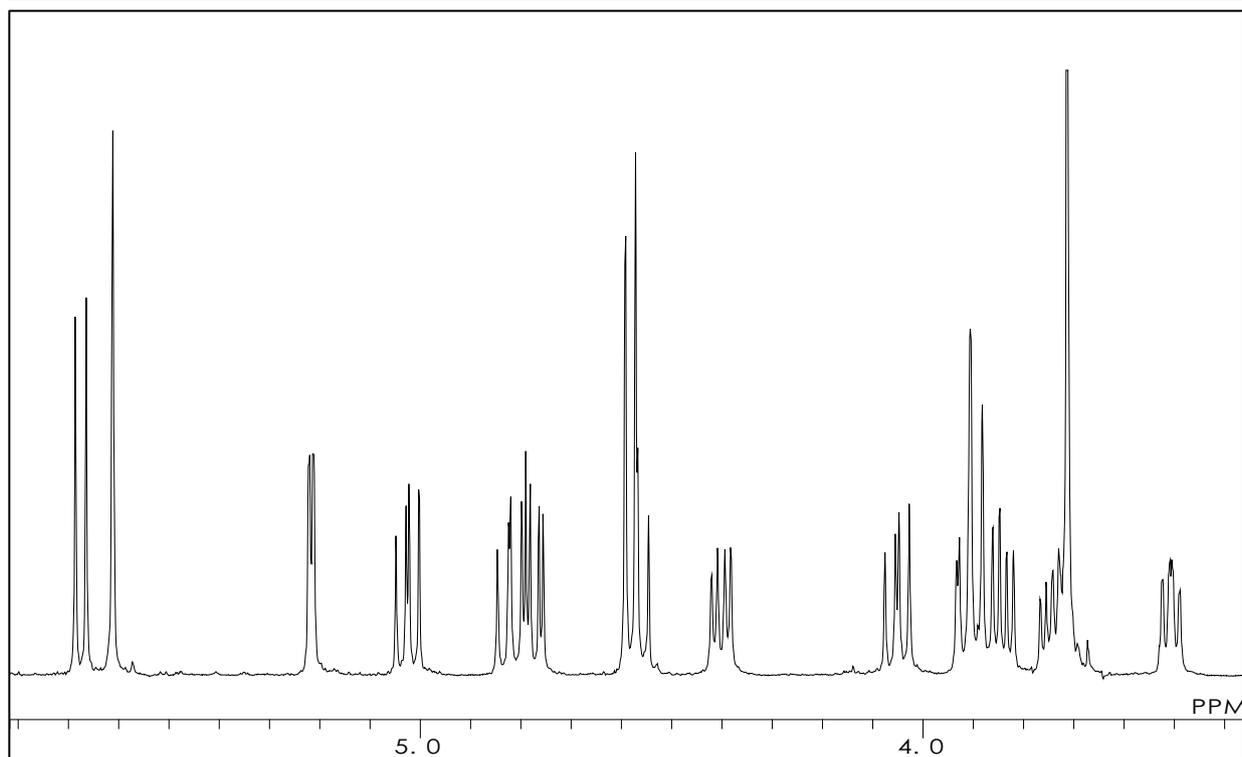
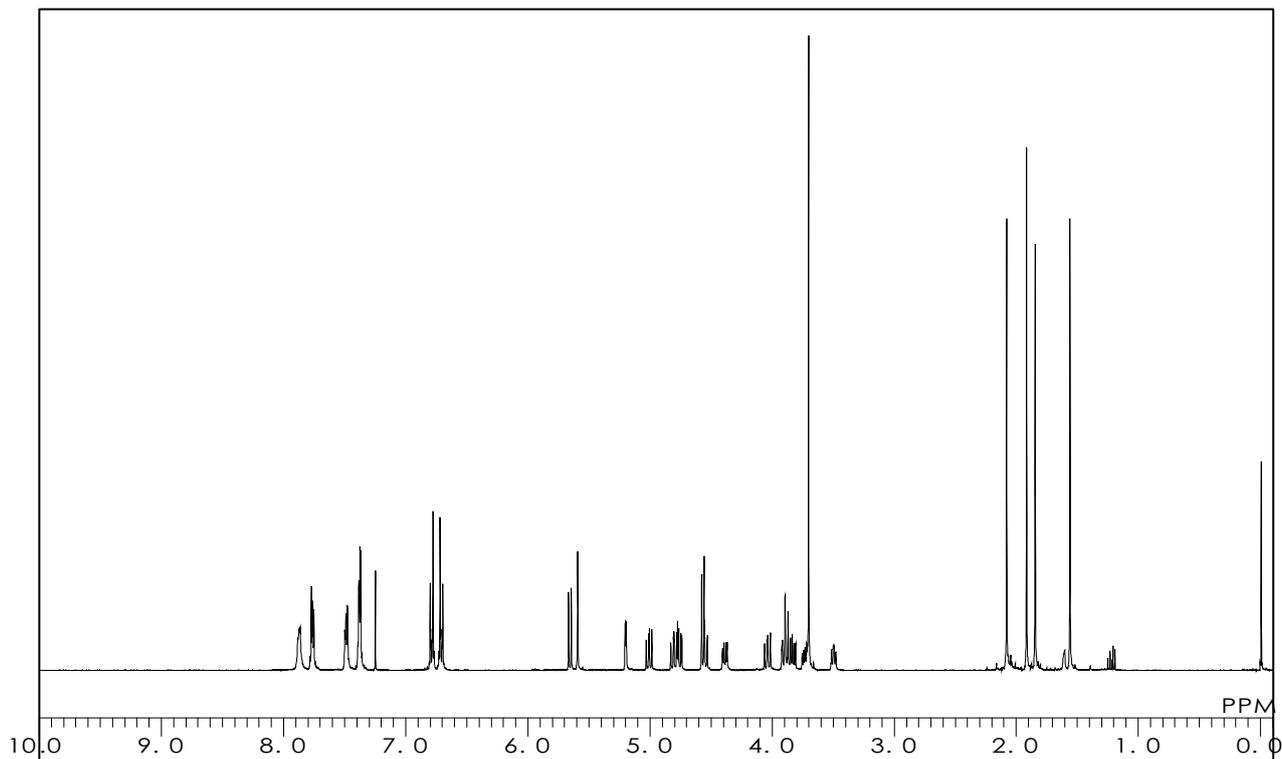
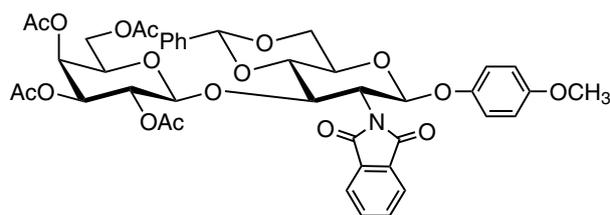
Gal[2346Ac] β (1-3)GlcNPhth[46Bzd]- β -MP

$C_{42}H_{43}NO_{17} = 833.80$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.0 $^{\circ}C$



M1686

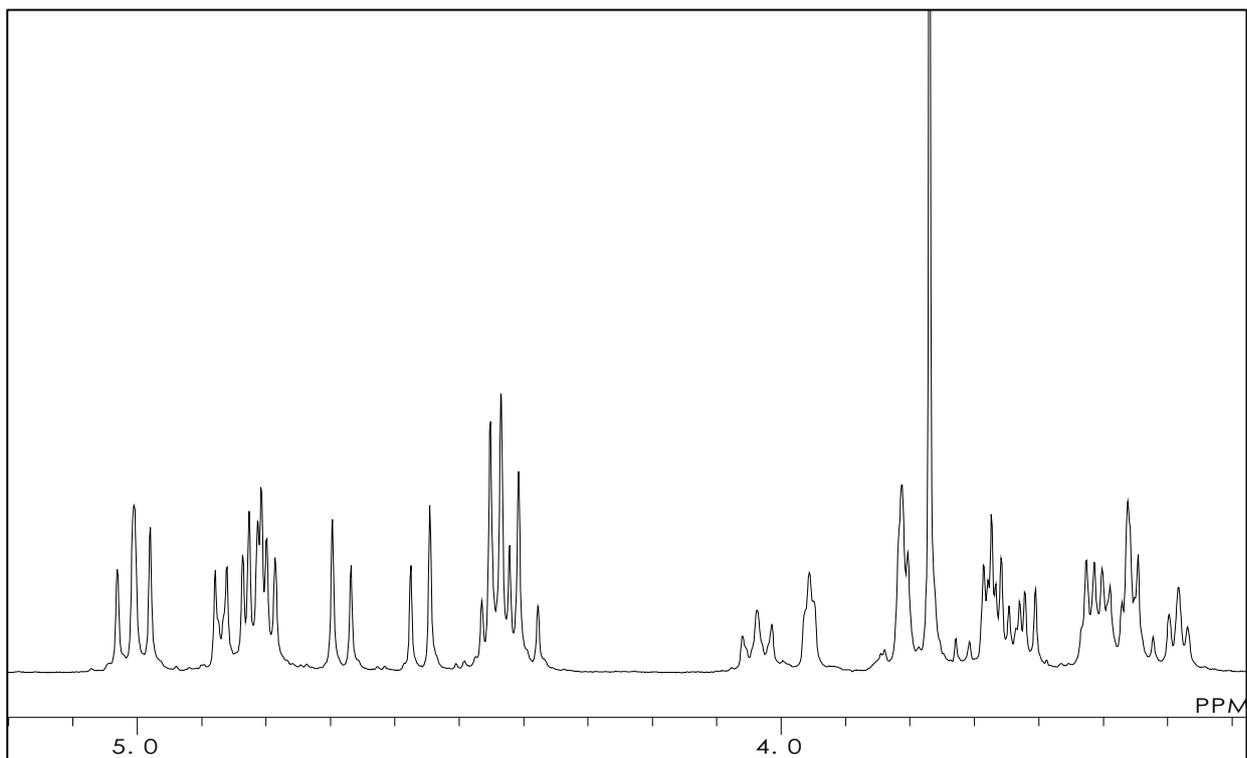
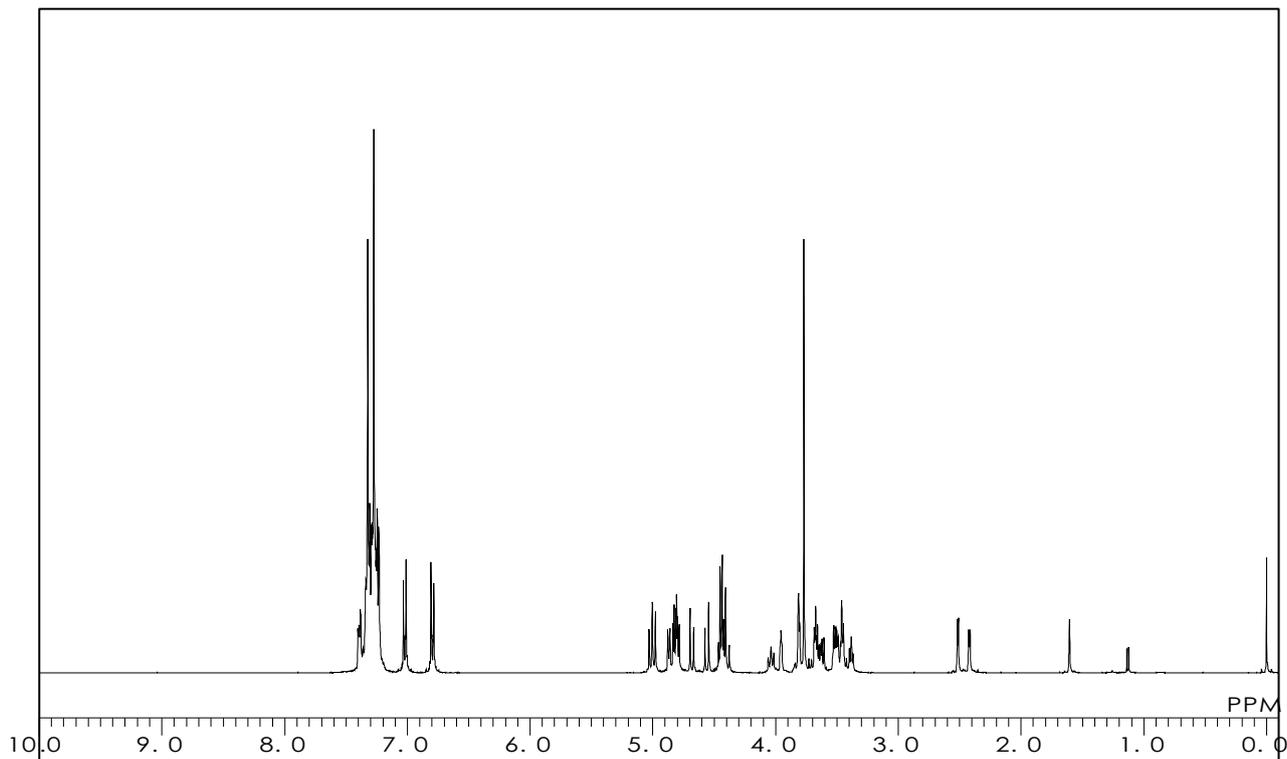
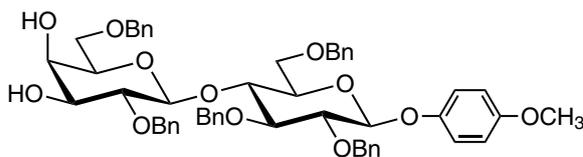
Gal[26Bn] β (1-4)Glc[236Bn]- β -MP

C₅₄H₅₈O₁₂ = 899.05 [358681-61-5]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 23.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1727

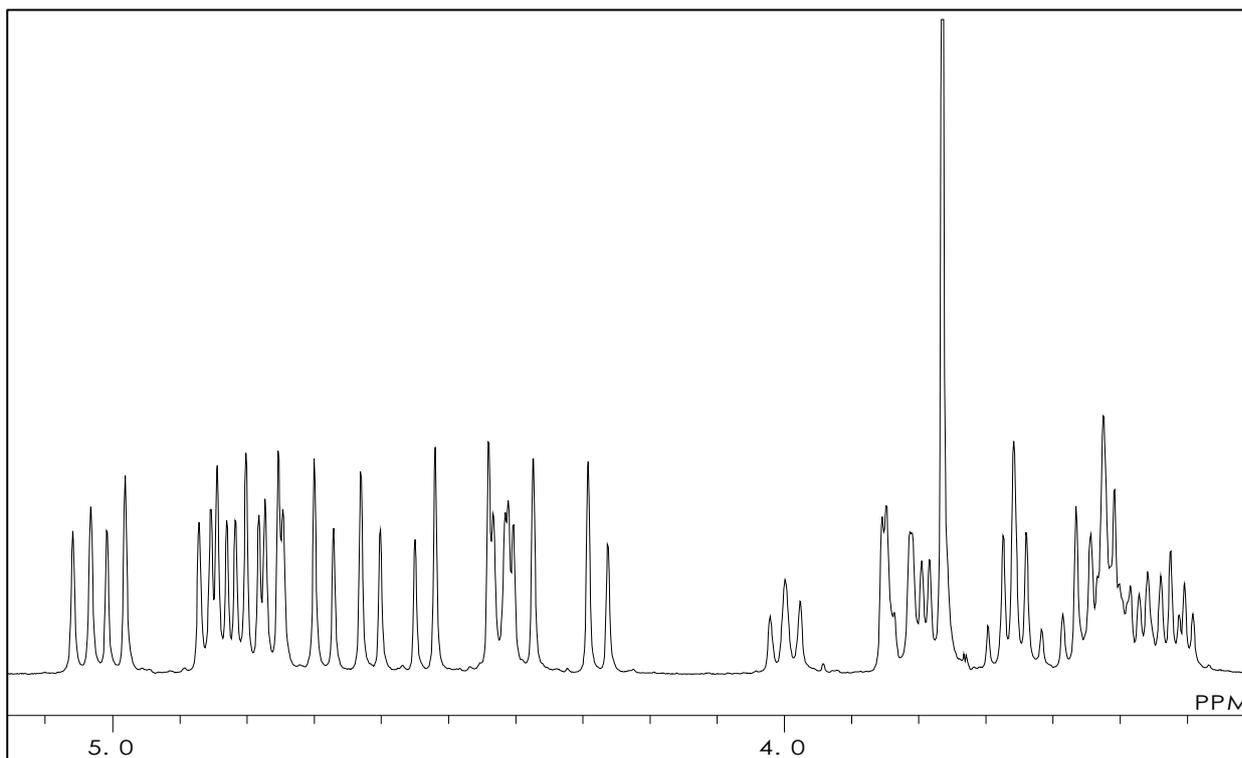
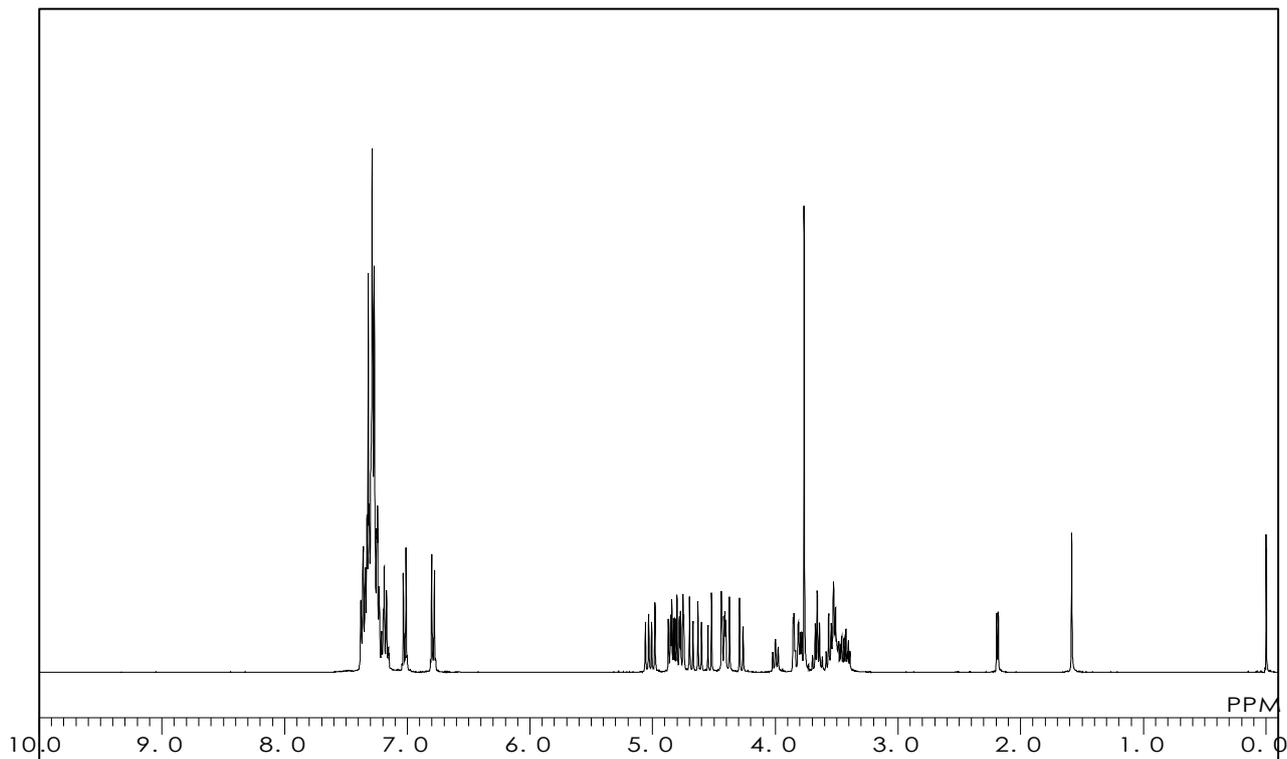
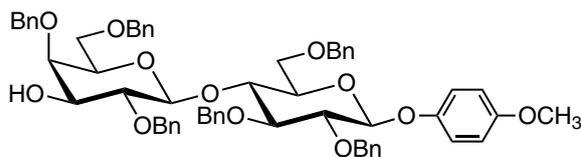
Gal[246Bn] β (1-4)Glc[236Bn]- β -MP

C₆₁H₆₄O₁₂ = 989.17 [717132-49-5]

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 23.4 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0461

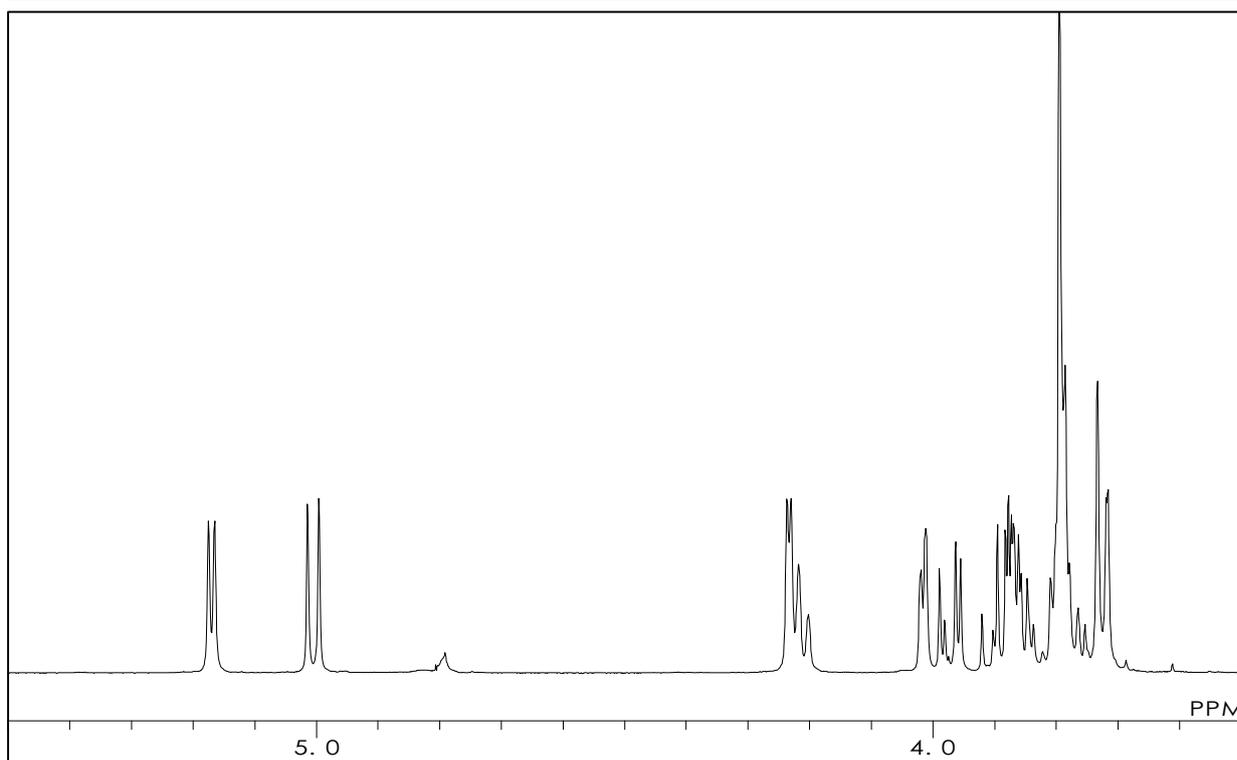
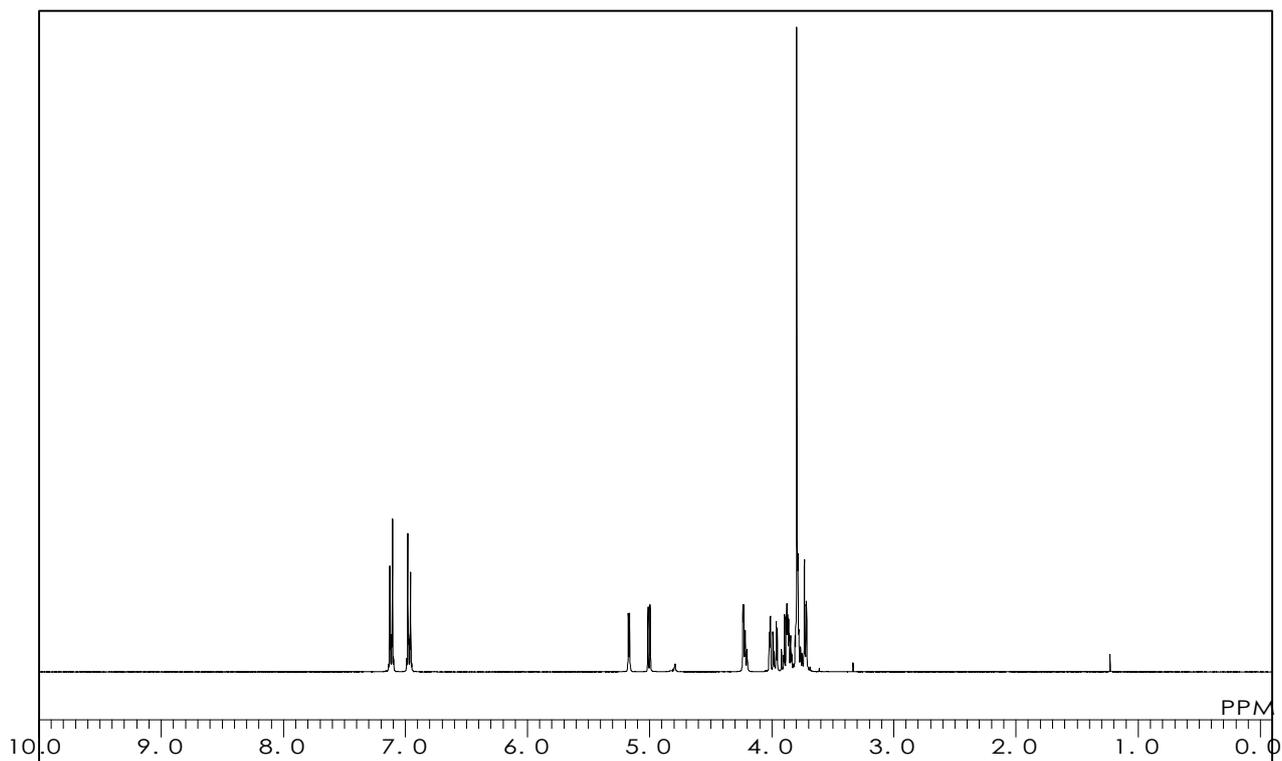
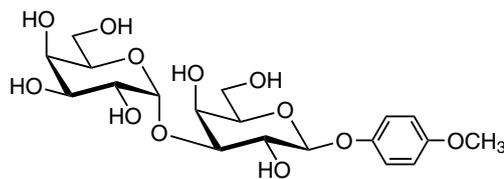
Gal α (1-3)Gal- β -MP

$C_{19}H_{28}O_{12} = 448.42$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.4 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

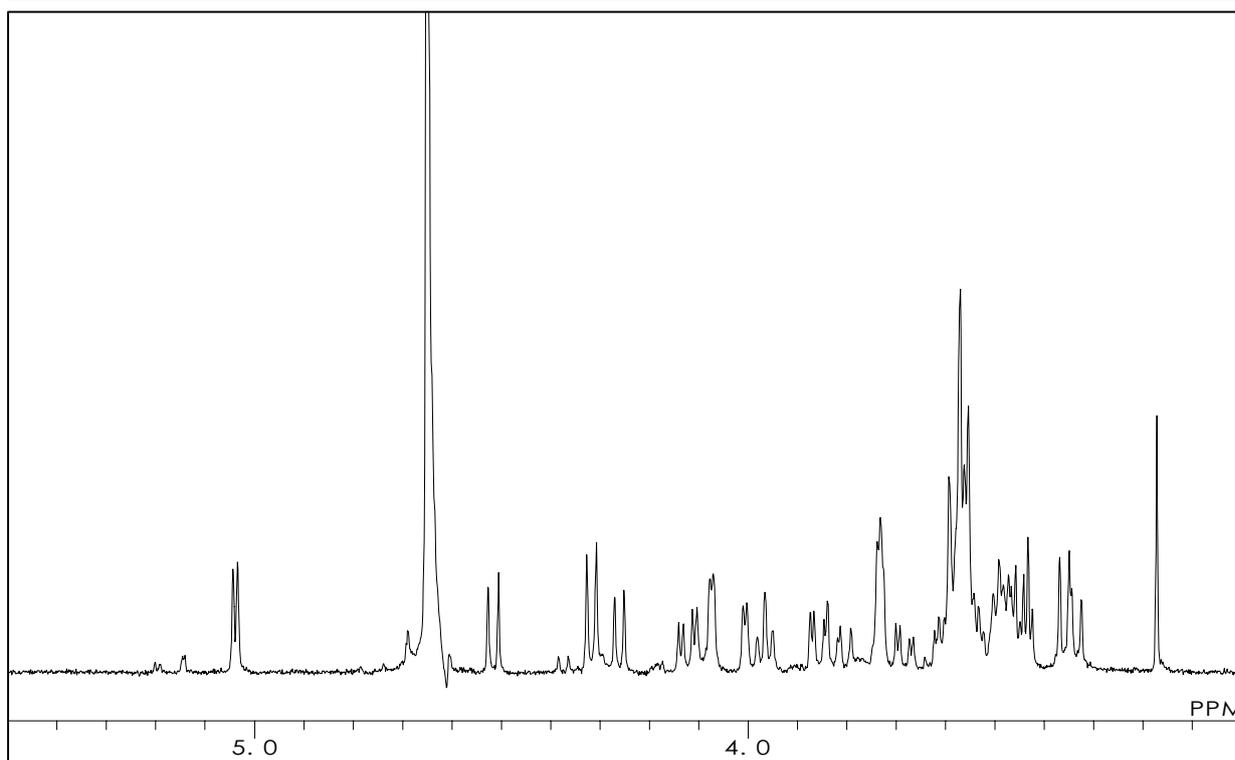
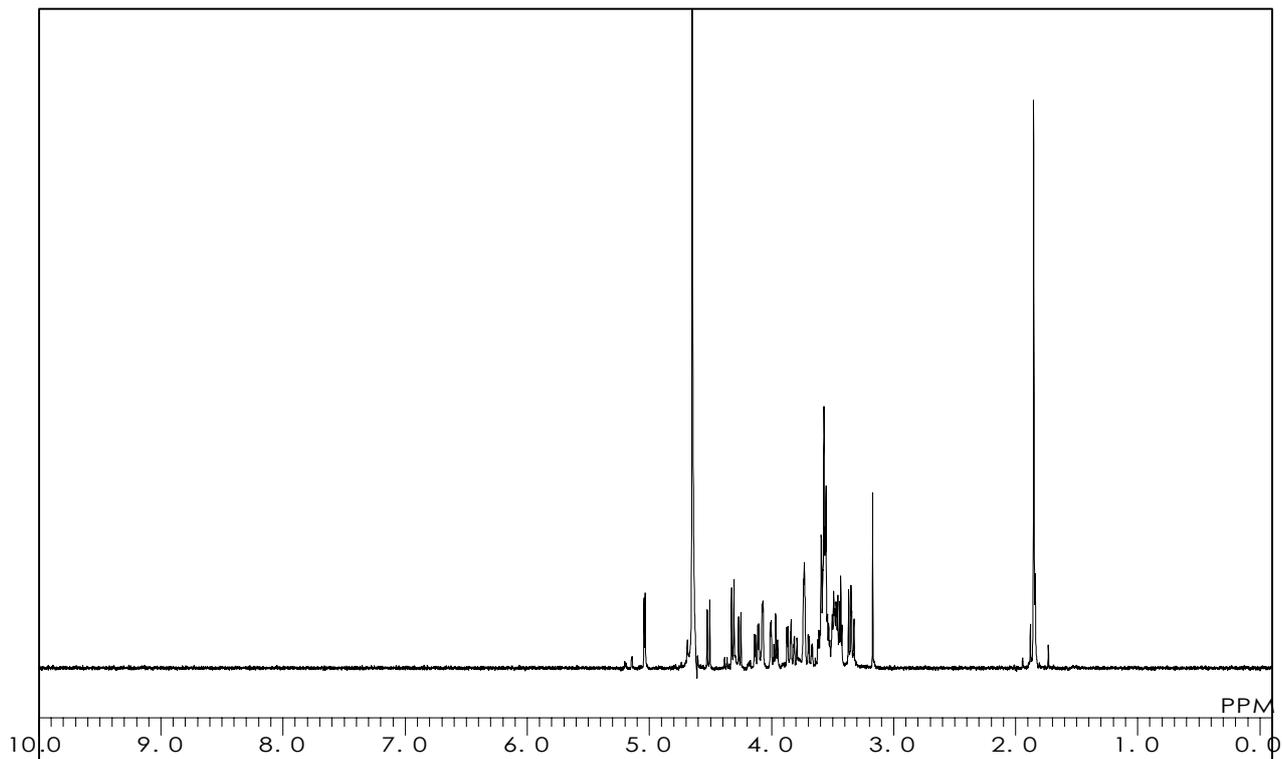
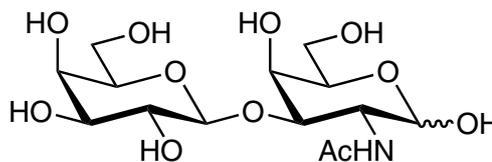
G0439

Gal β (1-3)GalNAc

$C_{14}H_{25}NO_{11}$ = 383.35 [20972-29-6]

Solvent : D_2O

Measured Temperature : 20.5 °C



G0375

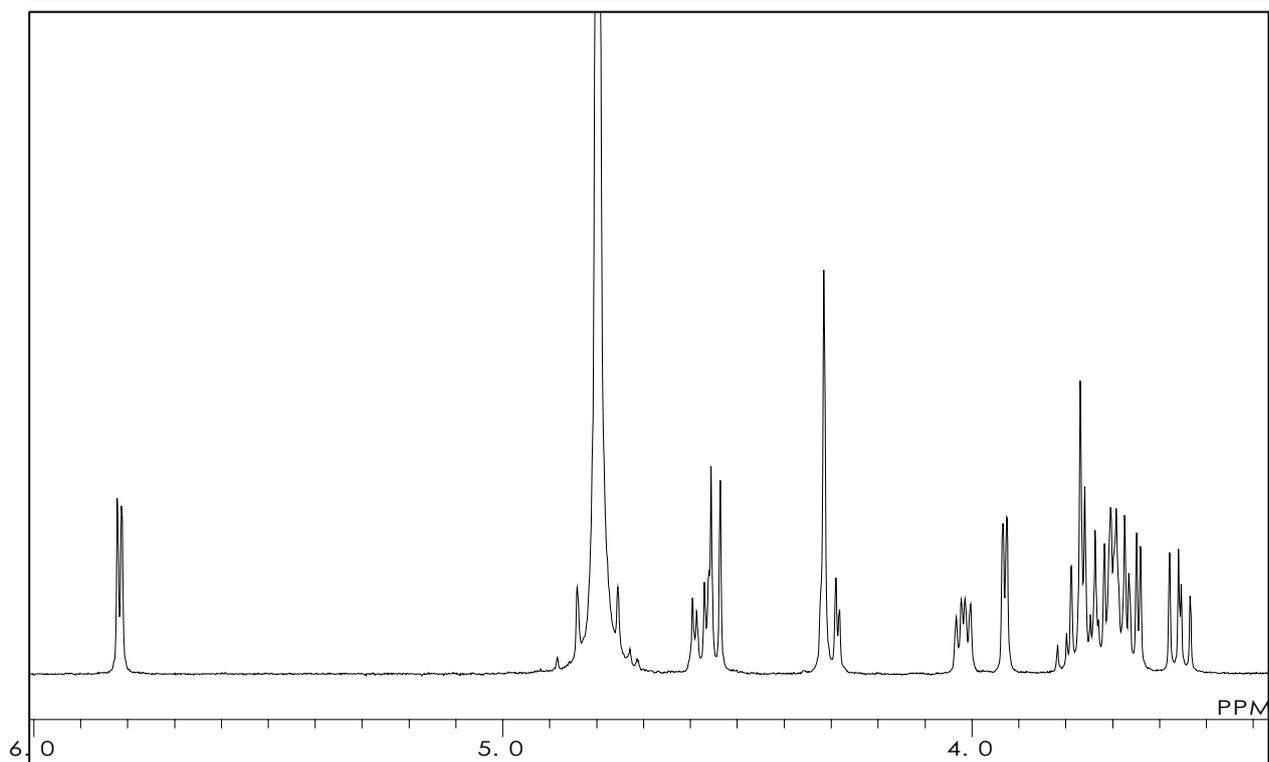
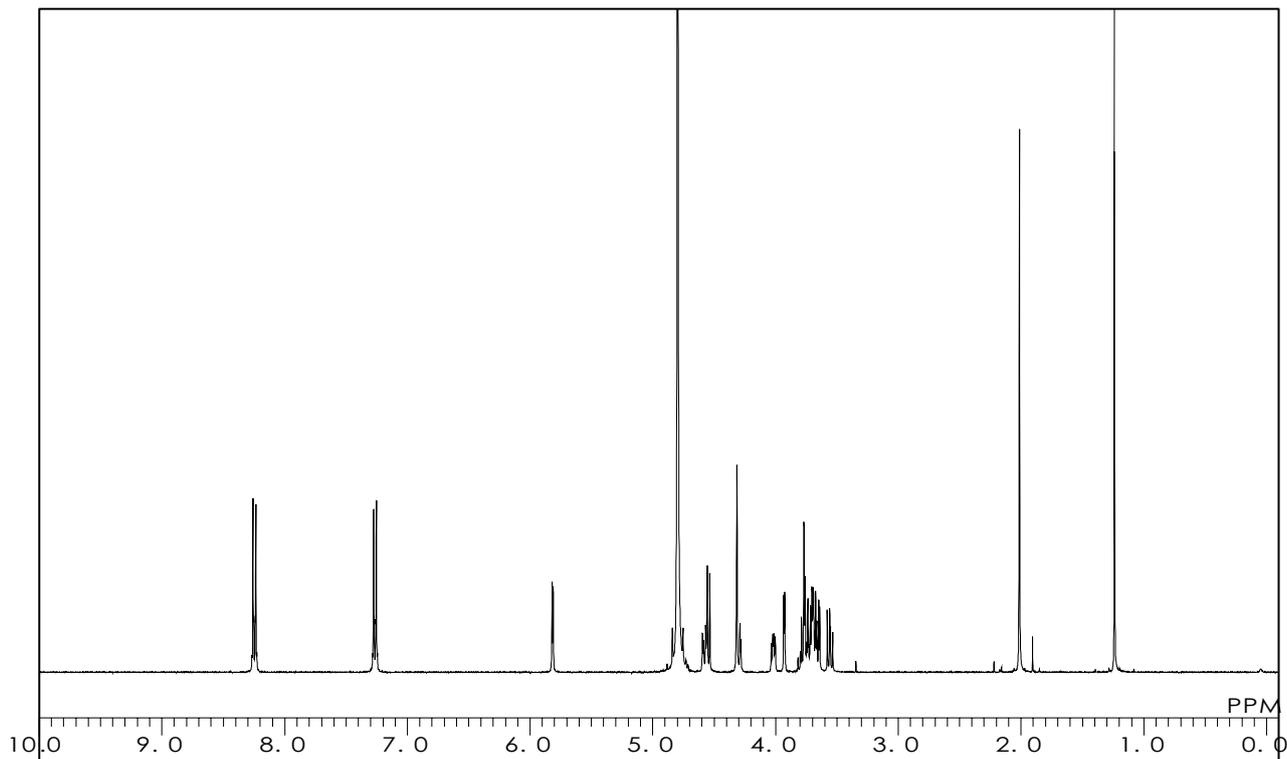
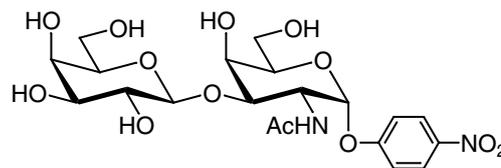
Gal β (1-3)GalNAc- α -pNP

C₂₀H₂₈N₂O₁₃ = 504.45 [59837-14-8]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

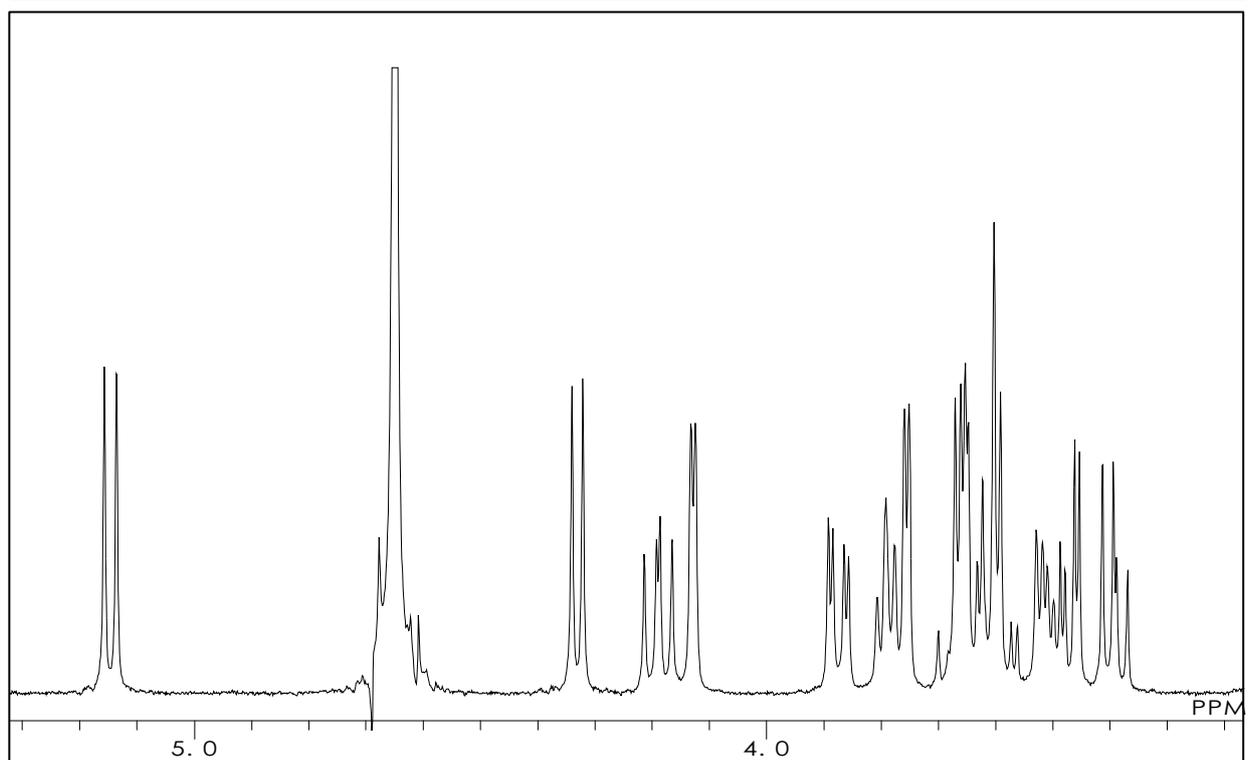
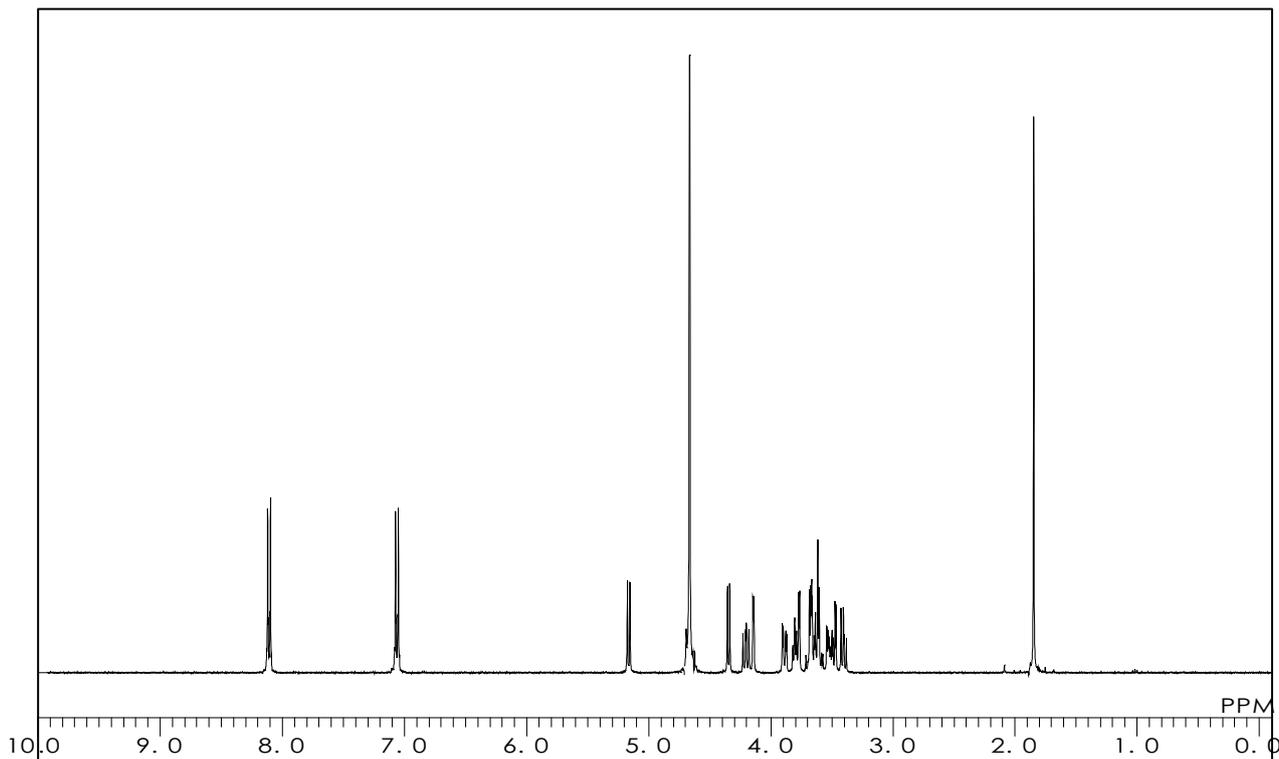
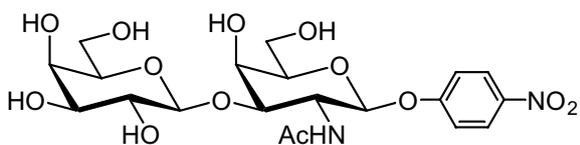
G0344

Gal β (1-3)GalNAc- β -pNP

C₂₀H₂₈N₂O₁₃ = 504.45 [59837-15-9]

Solvent : D₂O

Measured Temperature : 21.5 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

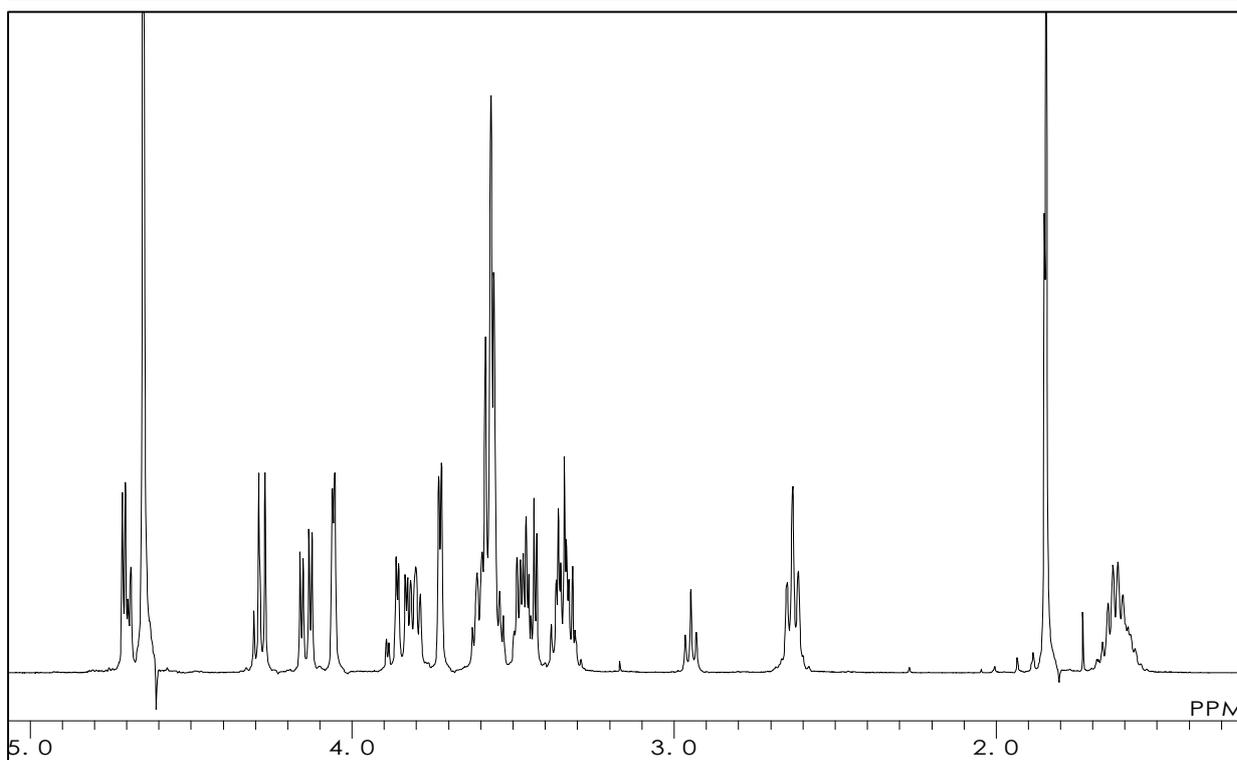
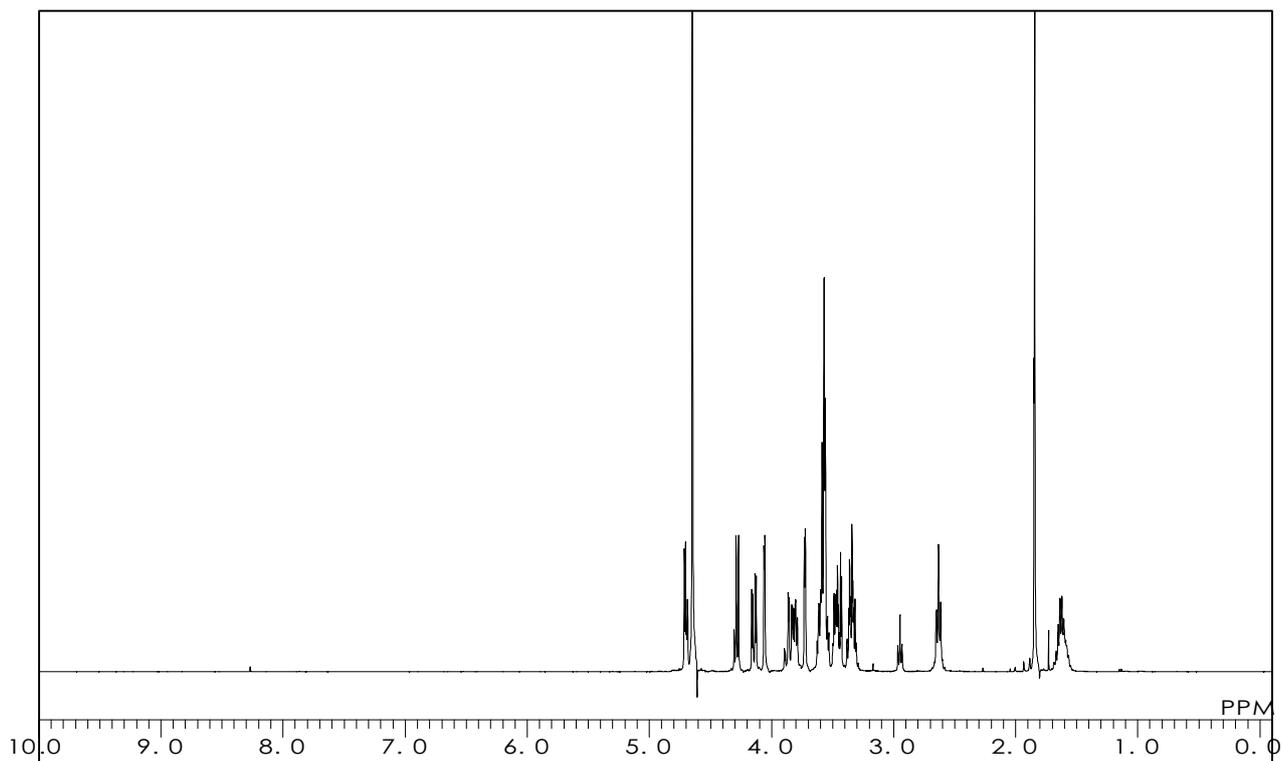
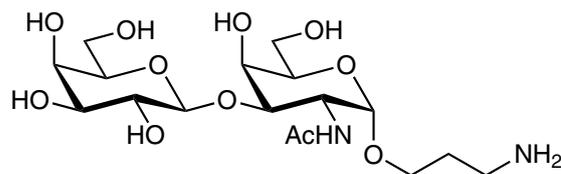
G0528

Gal β (1-3)GalNAc- α -propylamine

$C_{17}H_{32}N_2O_{11} = 440.45$ [100496-29-5]

Solvent : D_2O

Measured Temperature : 20.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0340

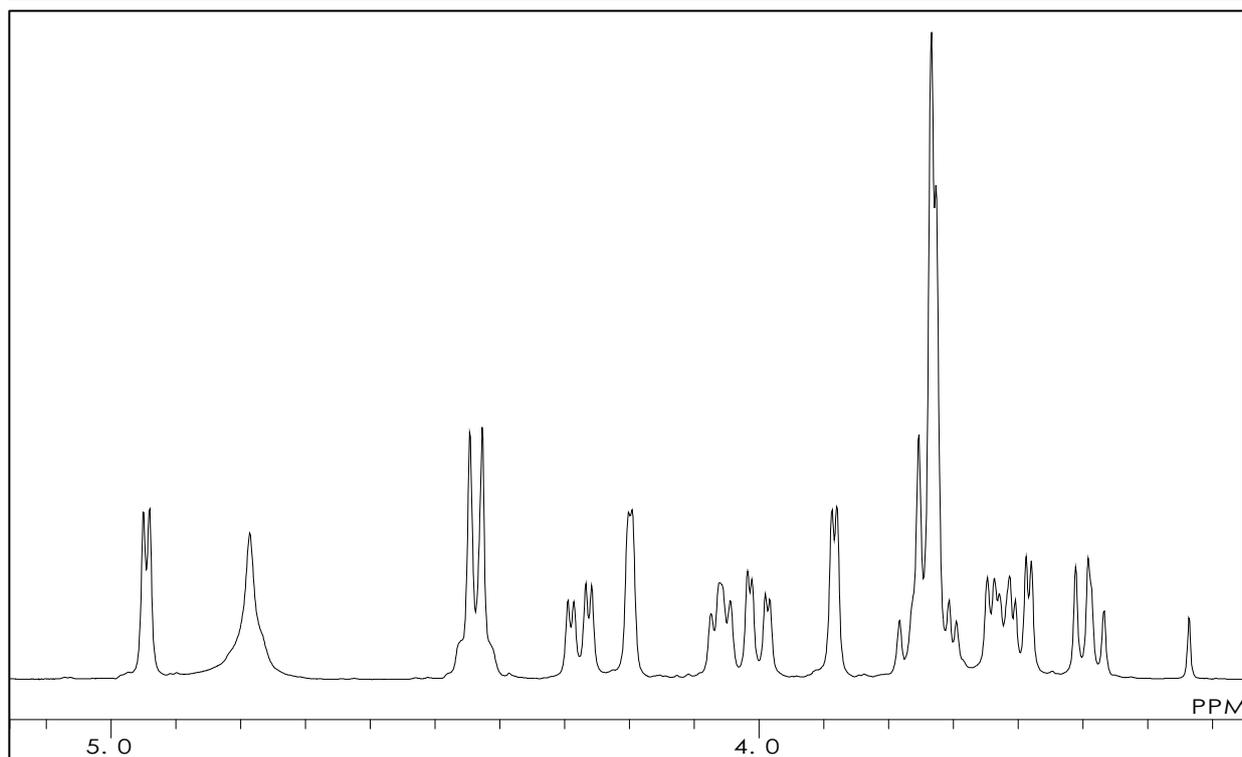
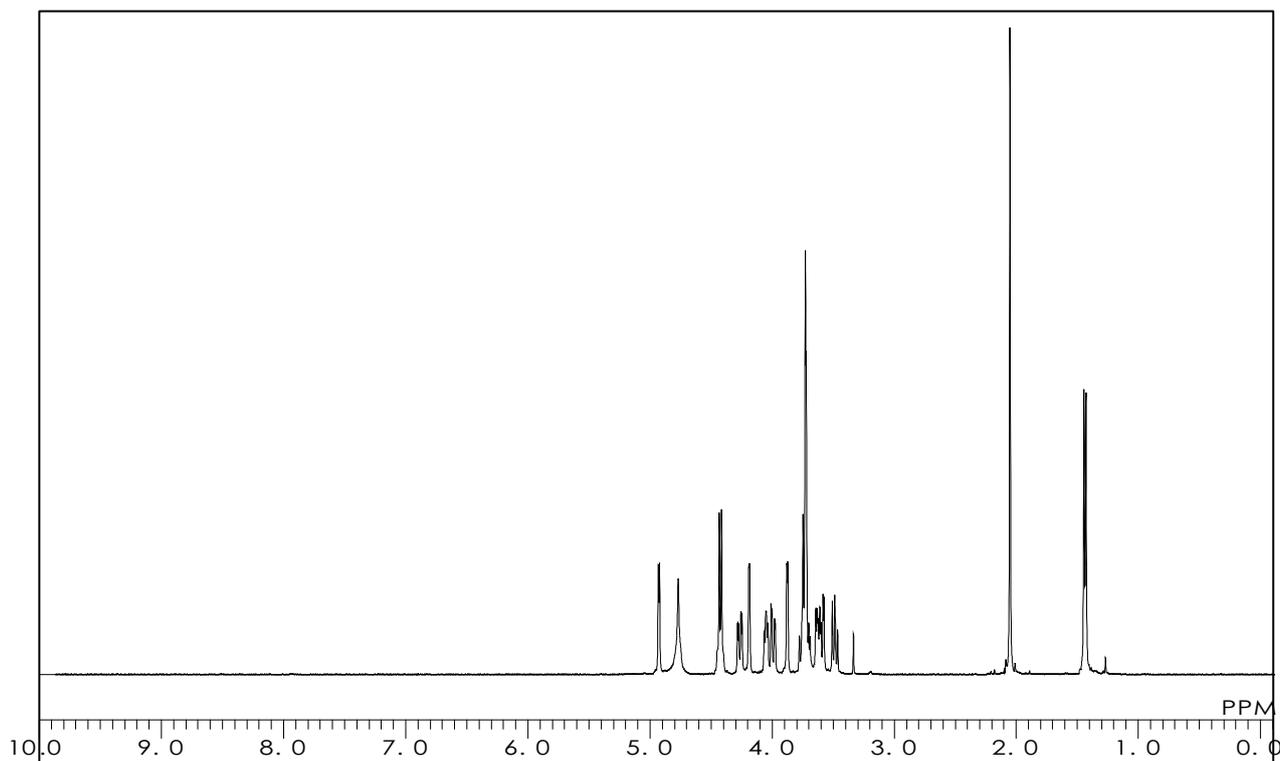
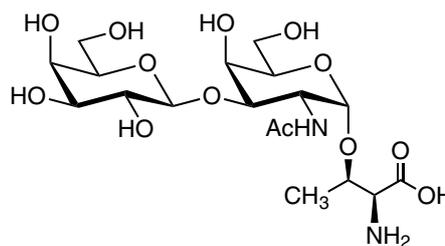
Gal β (1-3)GalNAc- α -Thr

C₁₈H₃₂N₂O₁₃ = 484.46 [60280-58-2]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.0 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0420

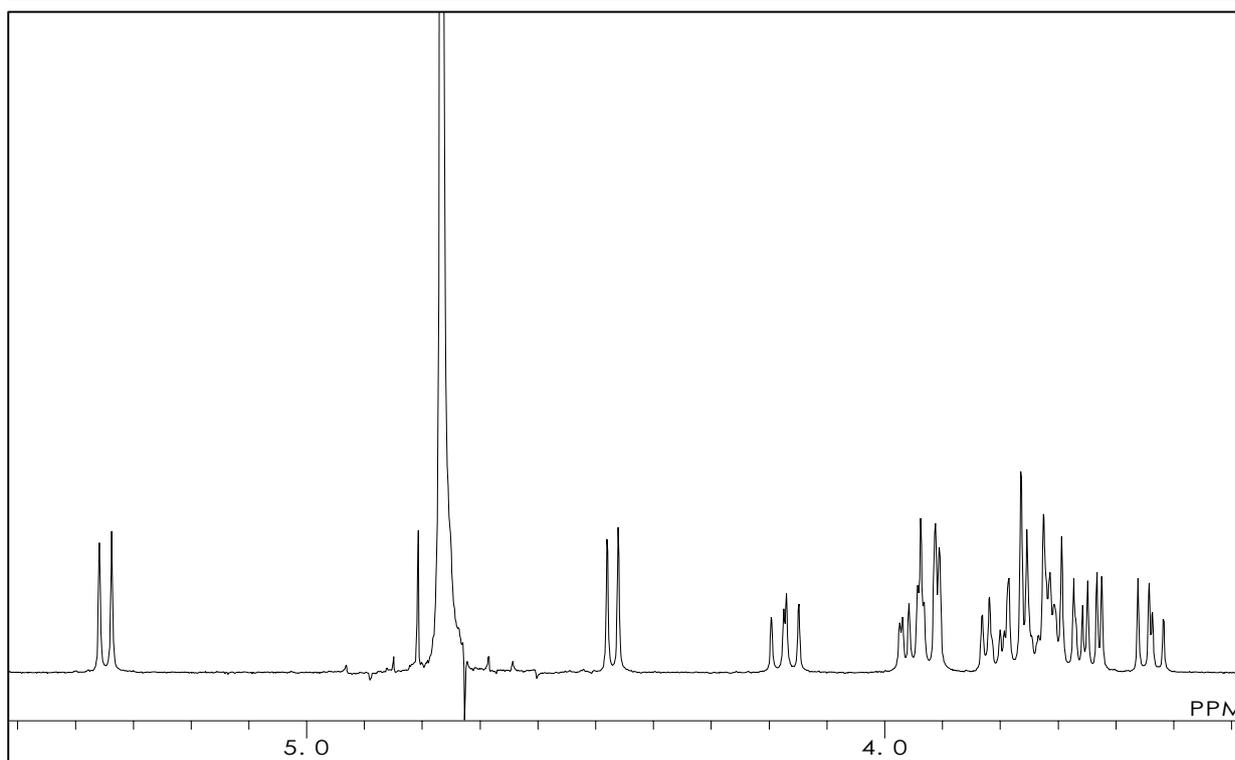
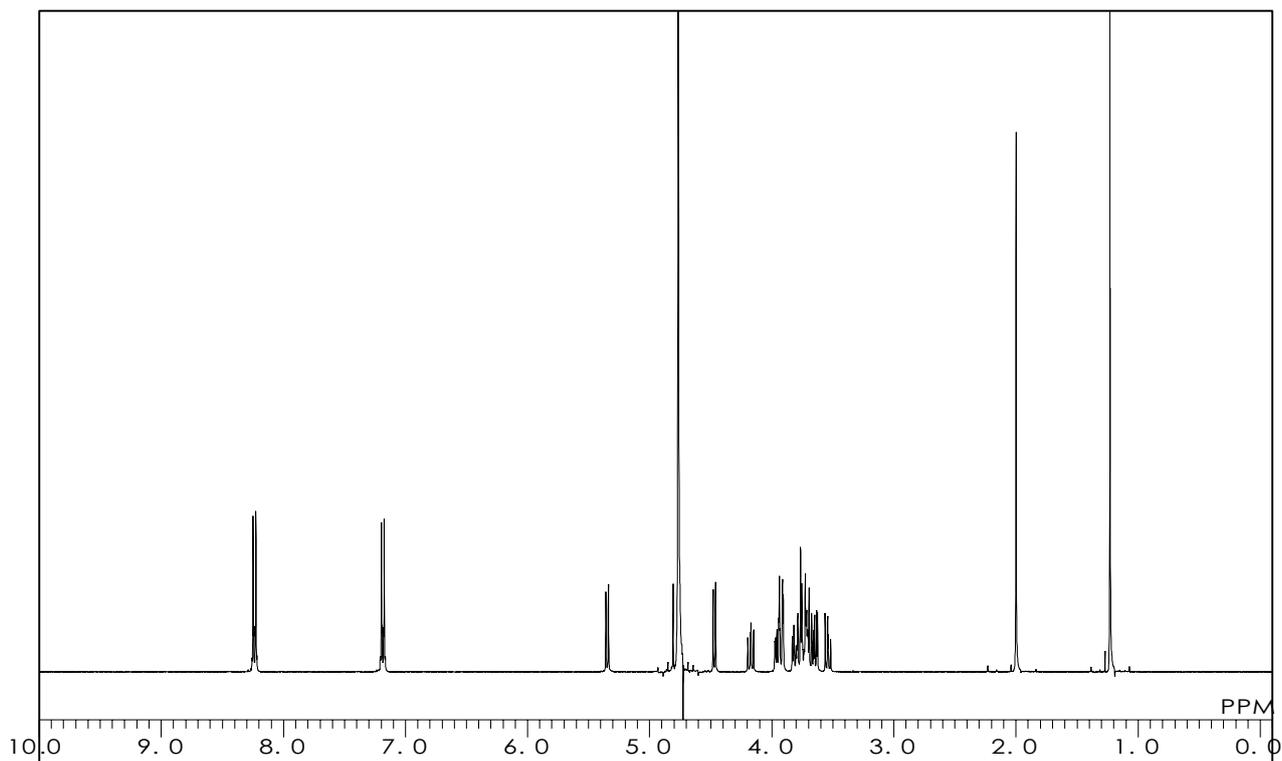
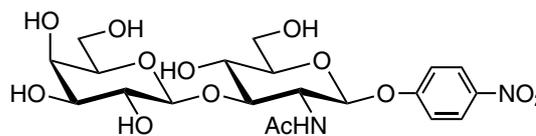
Gal β (1-3)GlcNAc- β -pNP

$C_{20}H_{28}N_2O_{13} = 504.45$ [57467-13-7]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0373

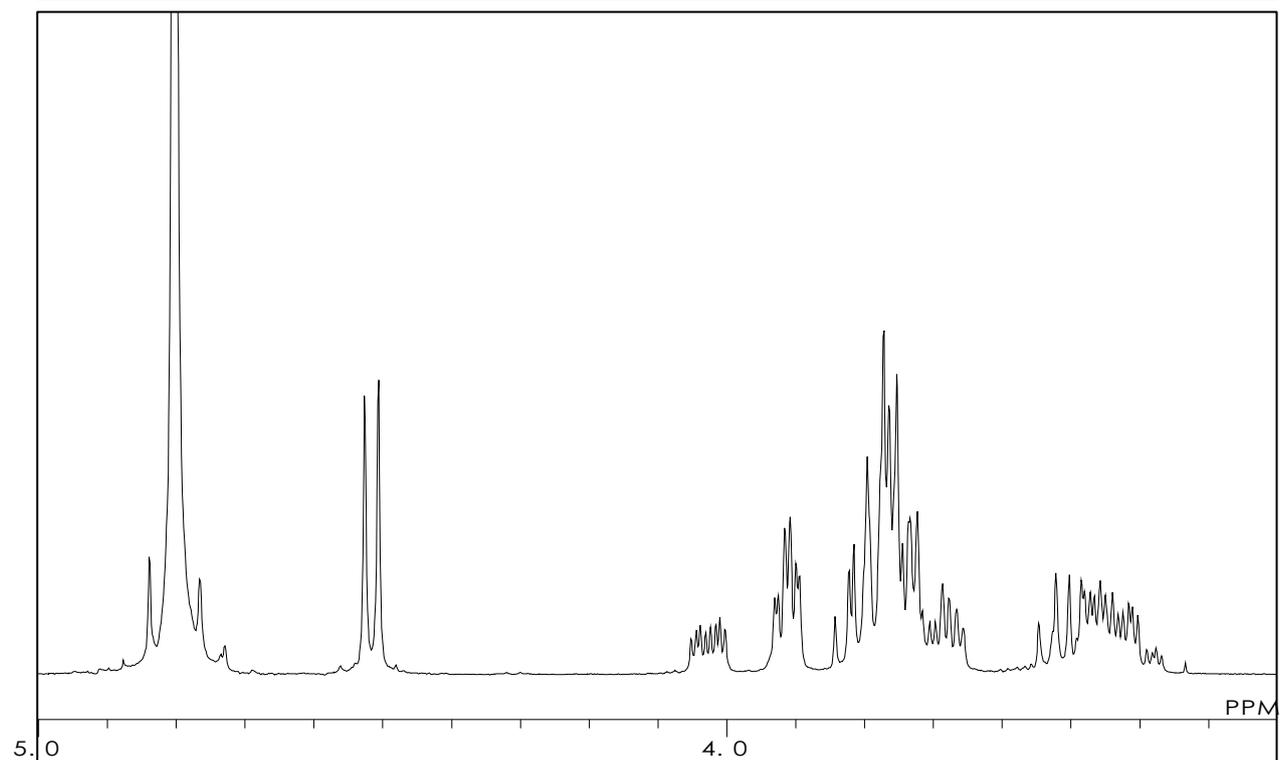
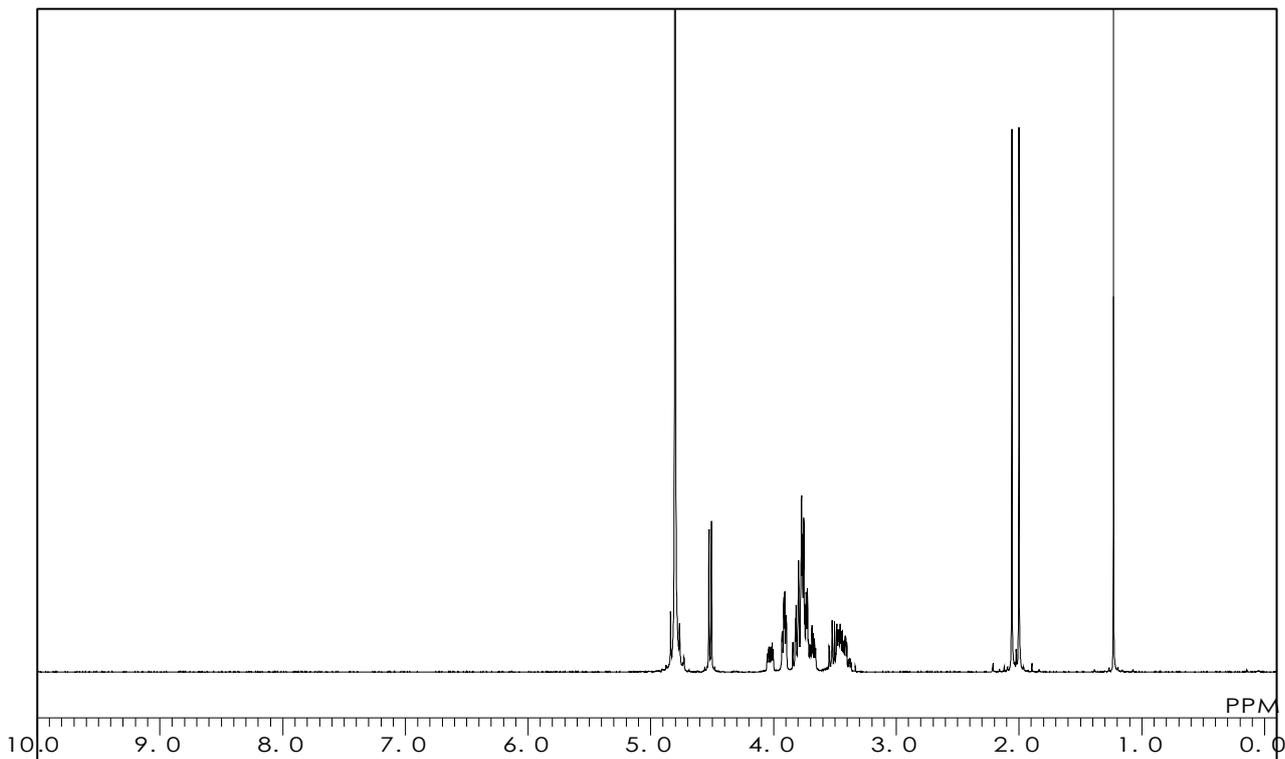
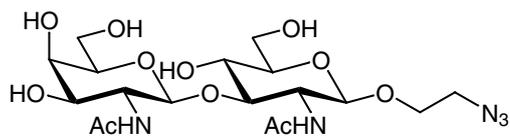
GalNAc β (1-3)GlcNAc- β -ethylazide

$C_{18}H_{31}N_5O_{11} = 493.47$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.5 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

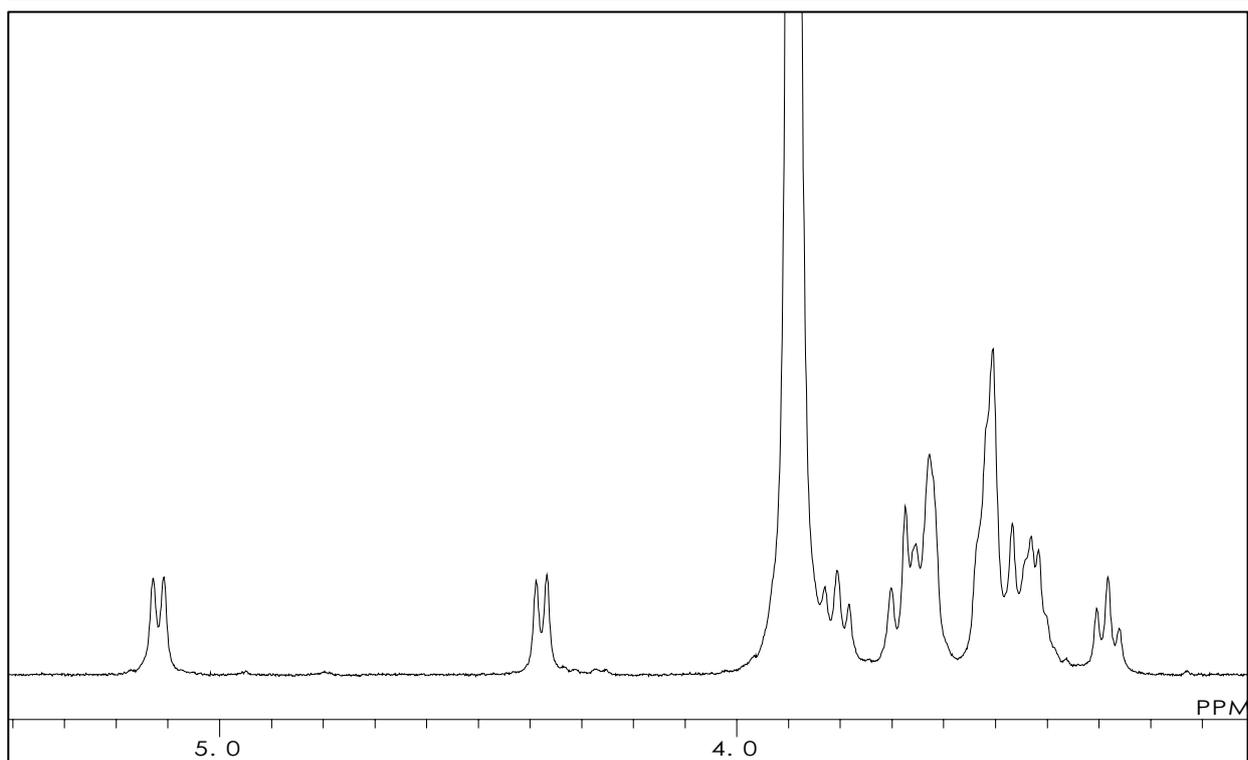
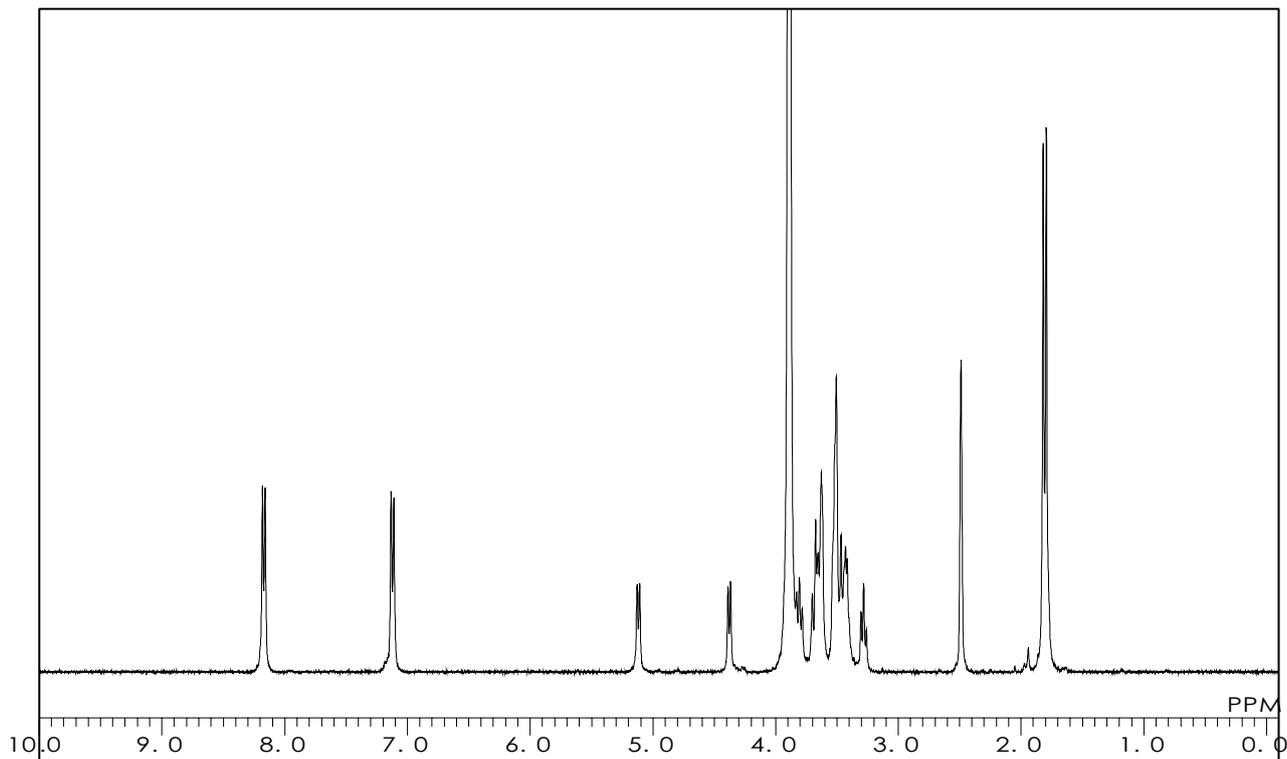
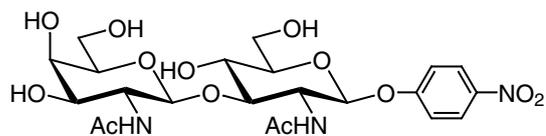
G0352

GalNAc β (1-3)GlcNAc- β -pNP

C₂₂H₃₁N₃O₁₃ = 545.50 [1456553-26-6]

Solvent : DMSO-d₆

Measured Temperature : 21.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0356

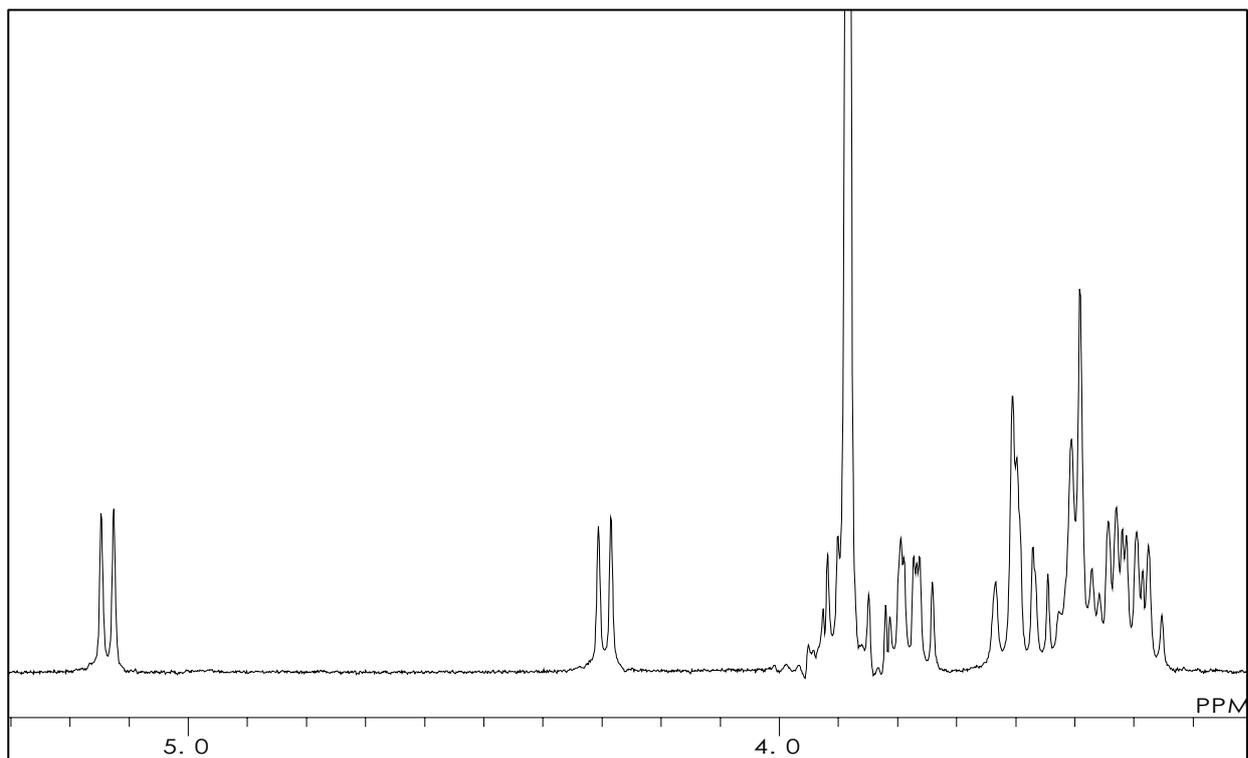
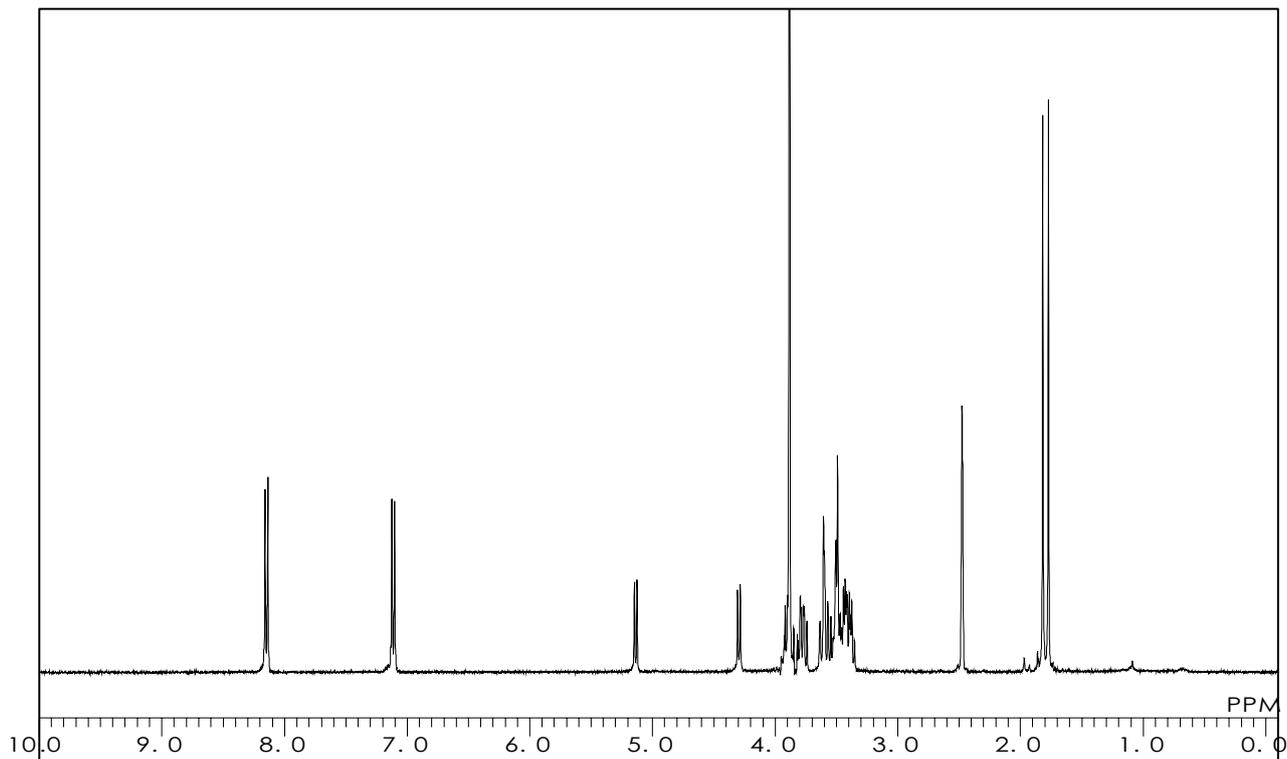
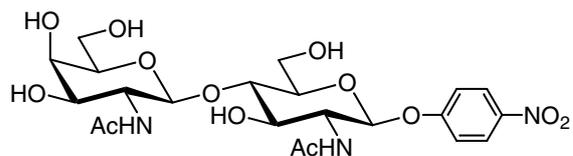
GaINAcβ(1-4)GlcNAc-β-pNP

$C_{22}H_{31}N_3O_{13} = 545.50$ [872578-72-8]

Solvent : DMSO- d_6 /D $_2$ O=8/2

Internal Standard : DMSO (δ 2.49)

Measured Temperature : 23.8 °C



G0376

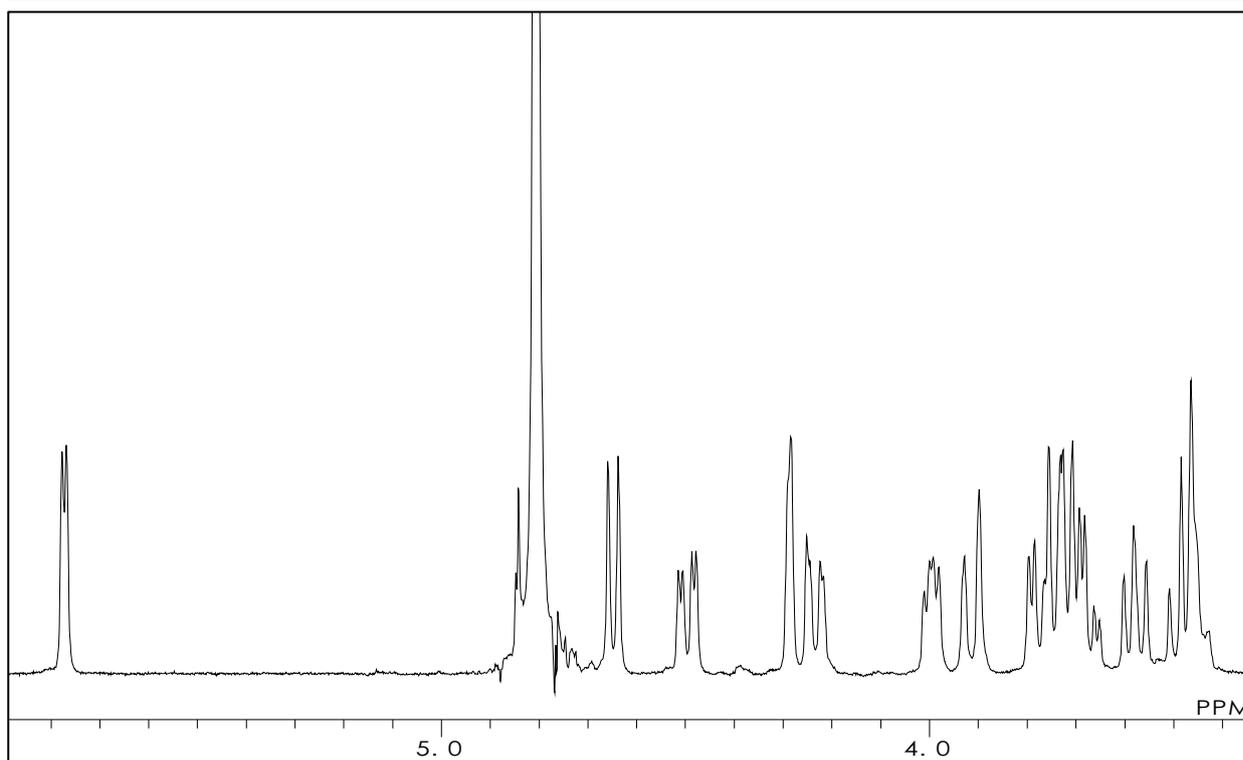
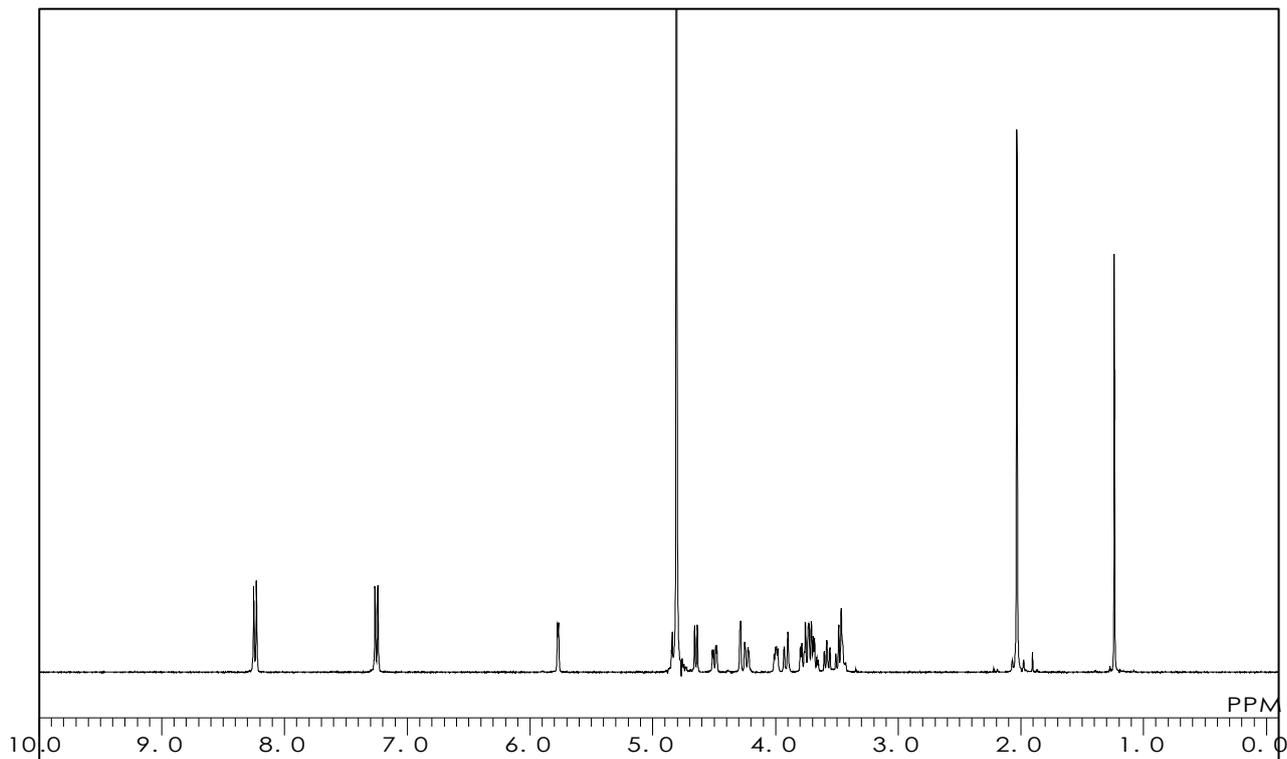
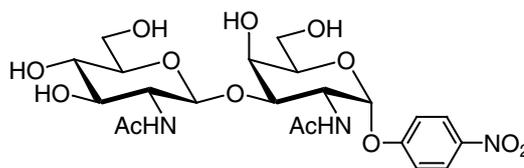
GlcNAc β (1-3)GalNAc- α -pNP

C₂₂H₃₁N₃O₁₃ = 545.50 [125455-64-3]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0341

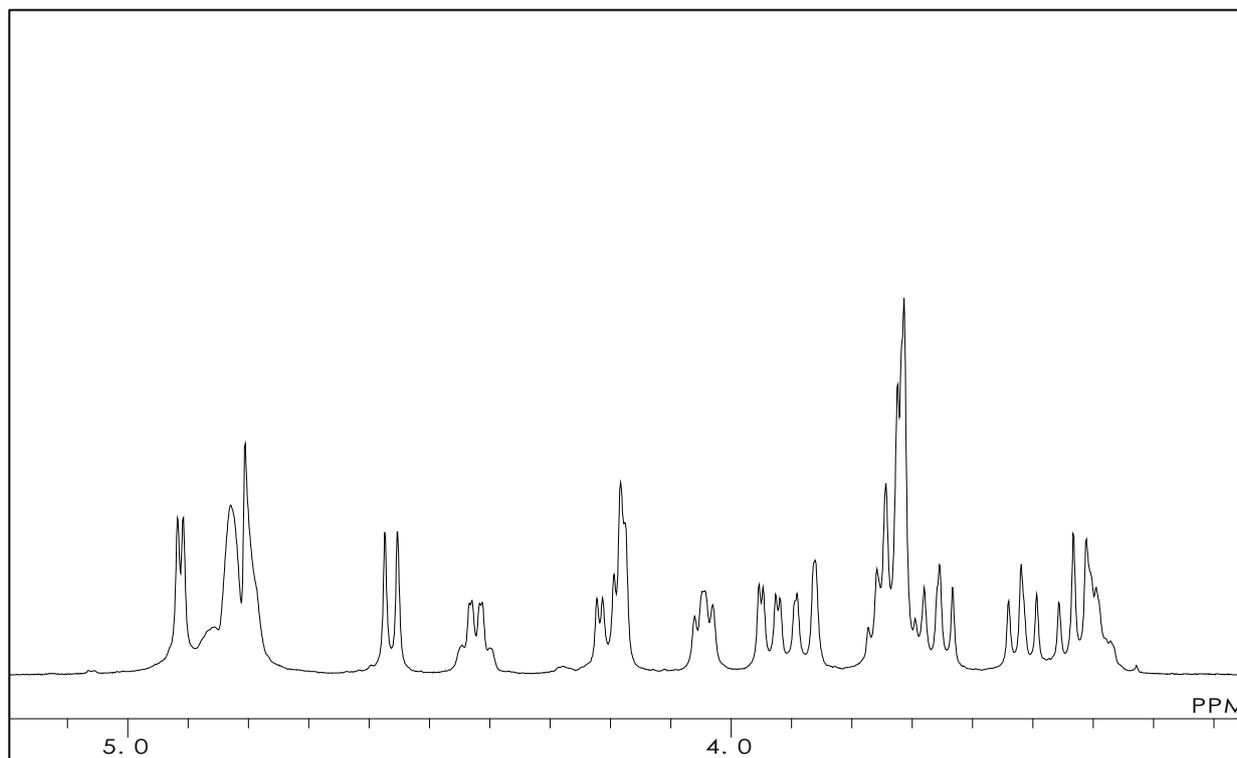
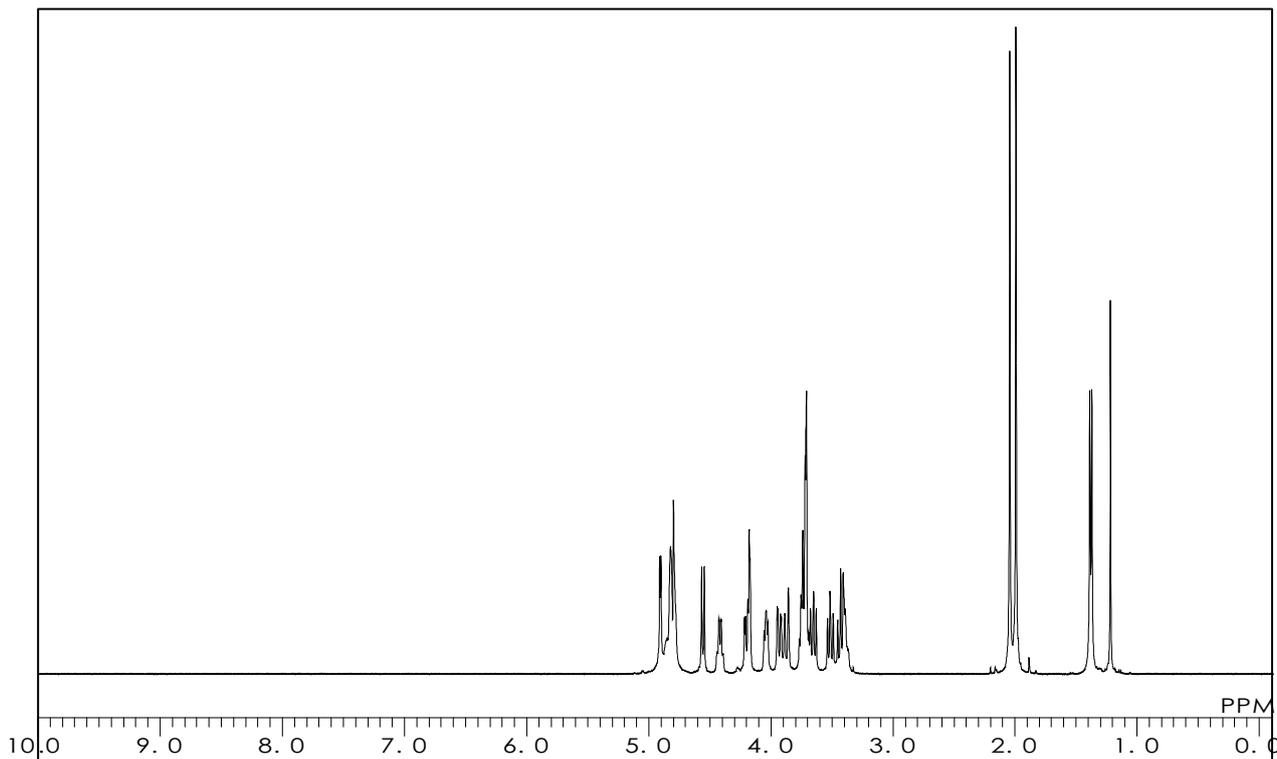
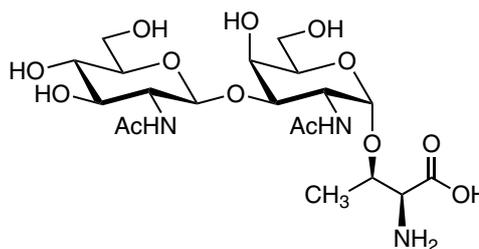
GlcNAc β (1-3)GalNAc- α -Thr

C₂₀H₃₅N₃O₁₃ = 525.51 [286959-52-2]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 20.6 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0337

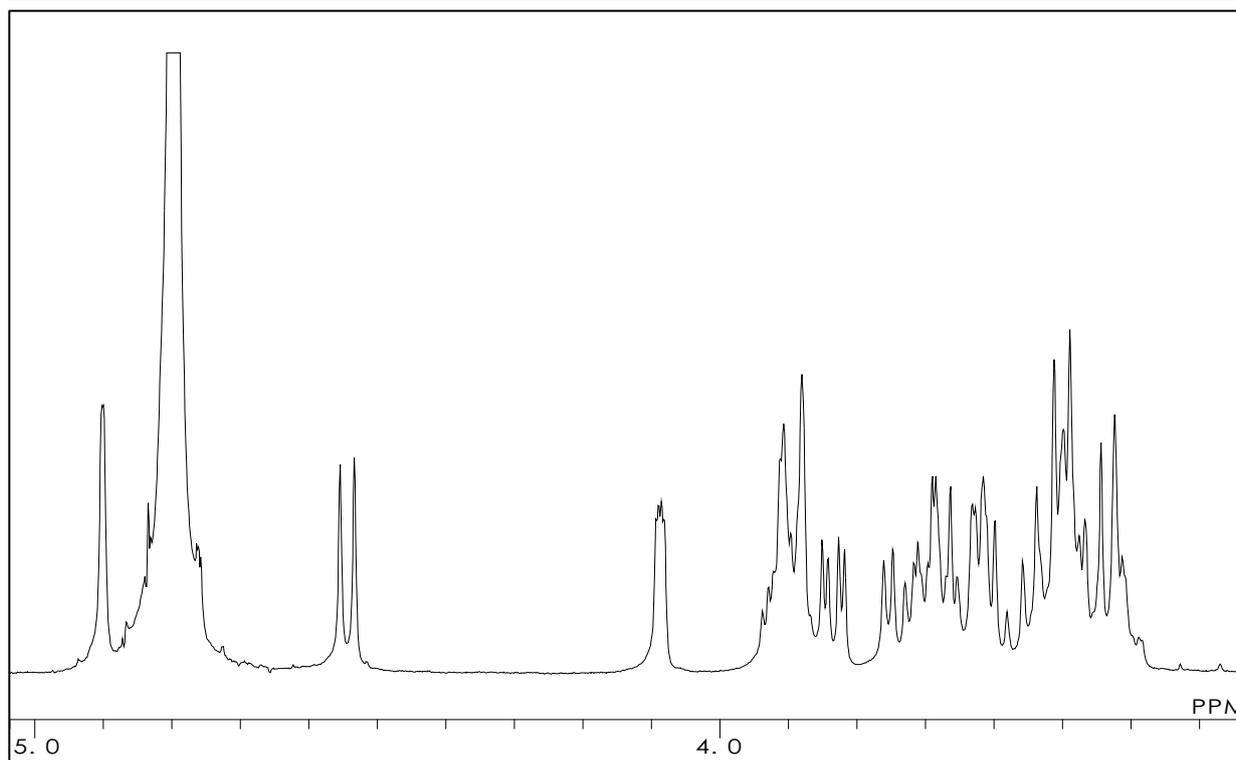
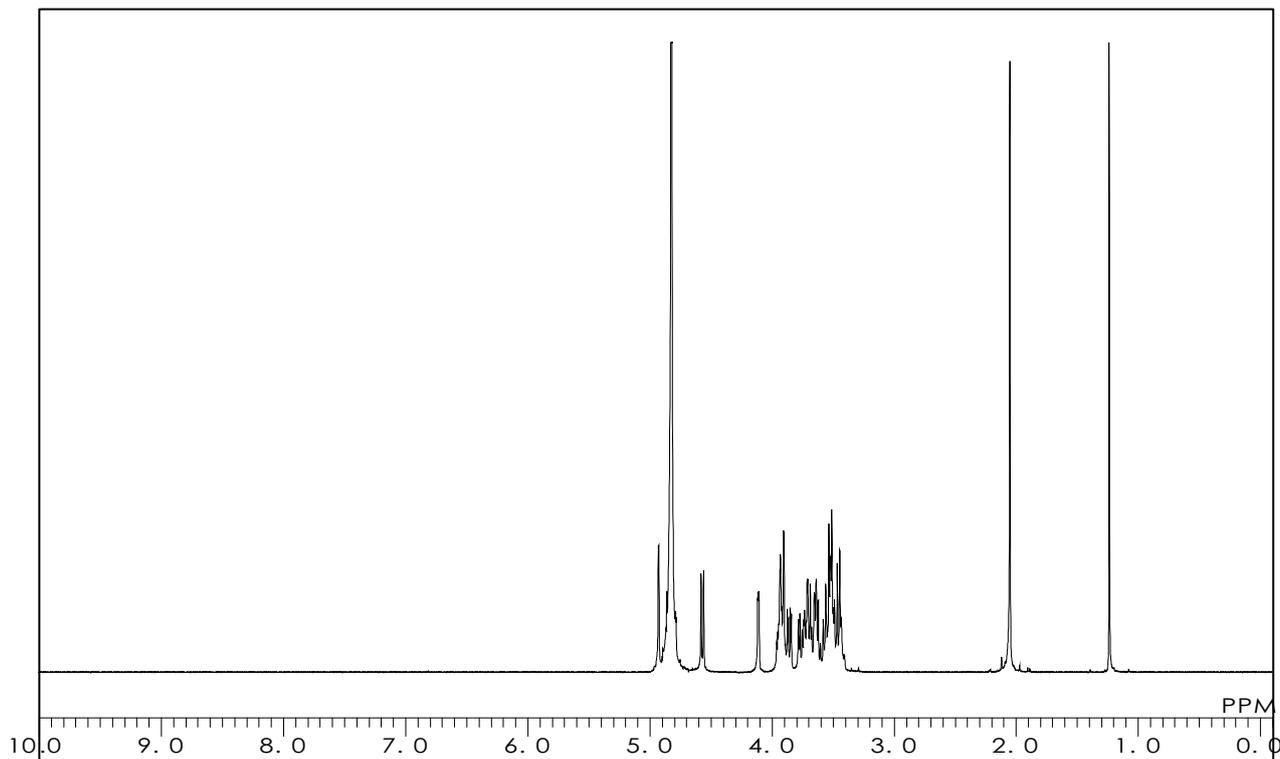
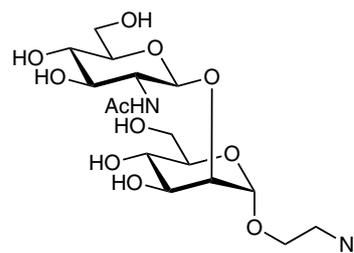
GlcNAc β (1-2)Man- α -ethylazide

$C_{16}H_{28}N_4O_{11} = 452.42$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0299

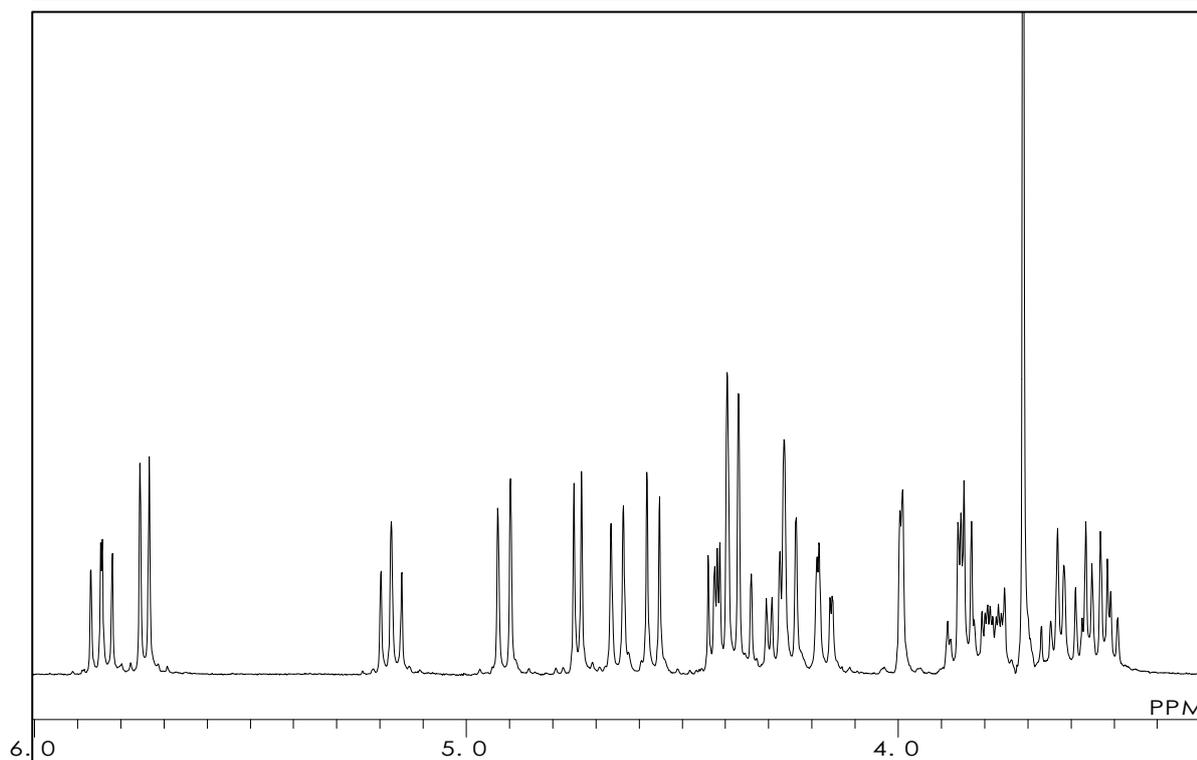
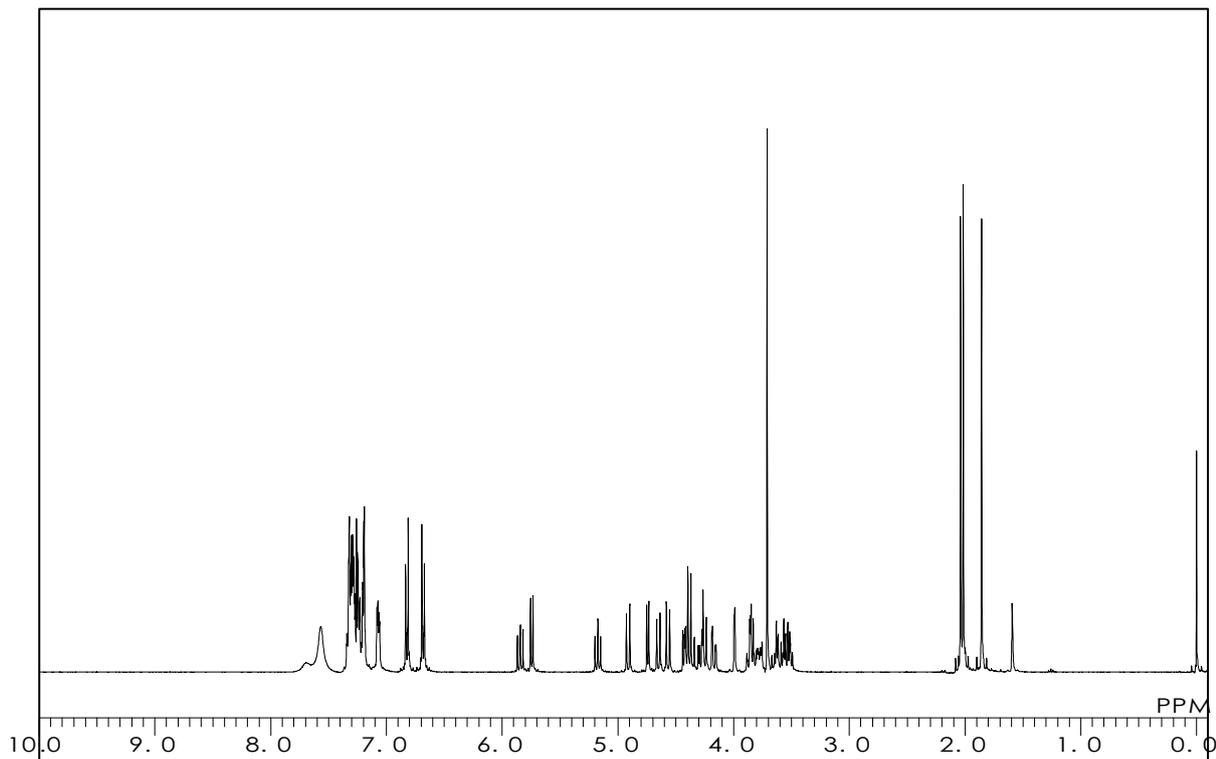
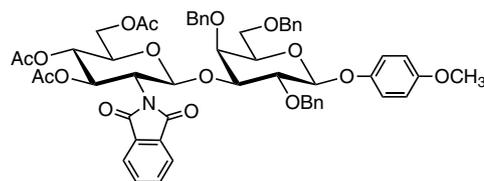
GlcNPhth[346Ac] β (1-3)Gal[246Bn]- β -MP

C₅₄H₅₅NO₁₆ = 974.03

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.5 °C



L0324

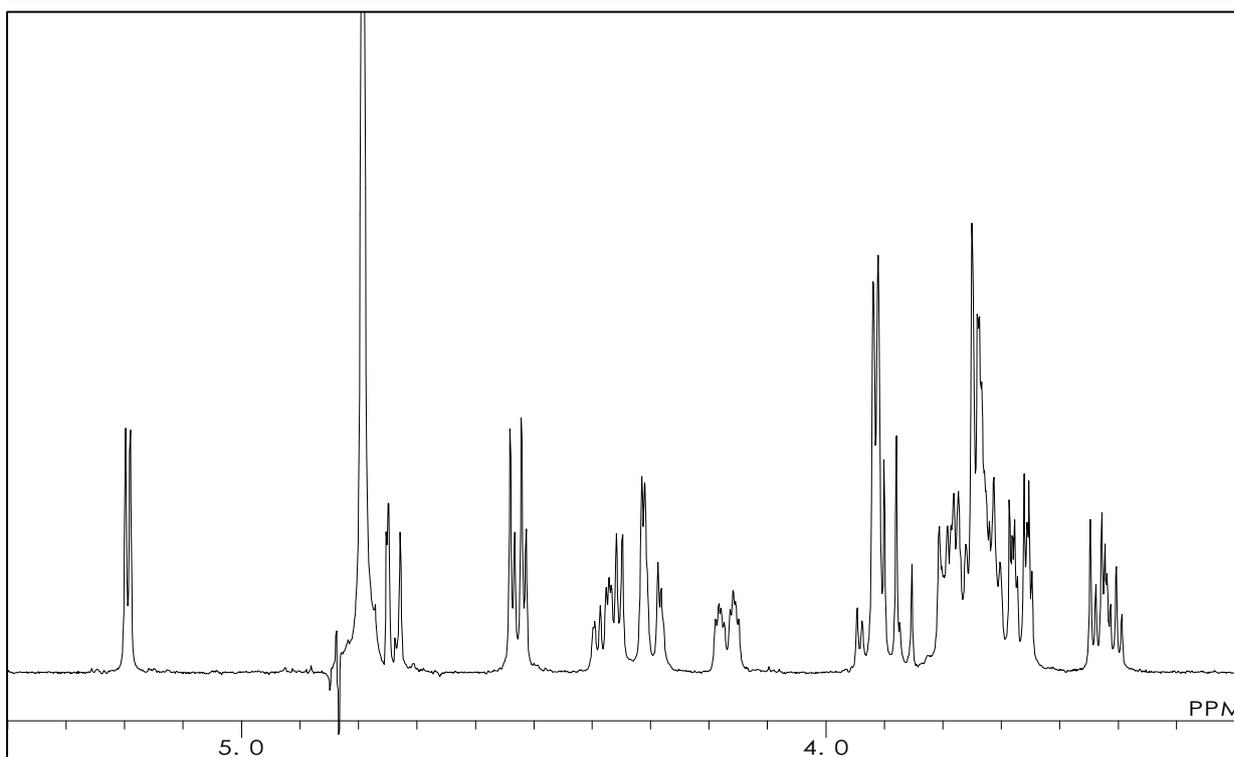
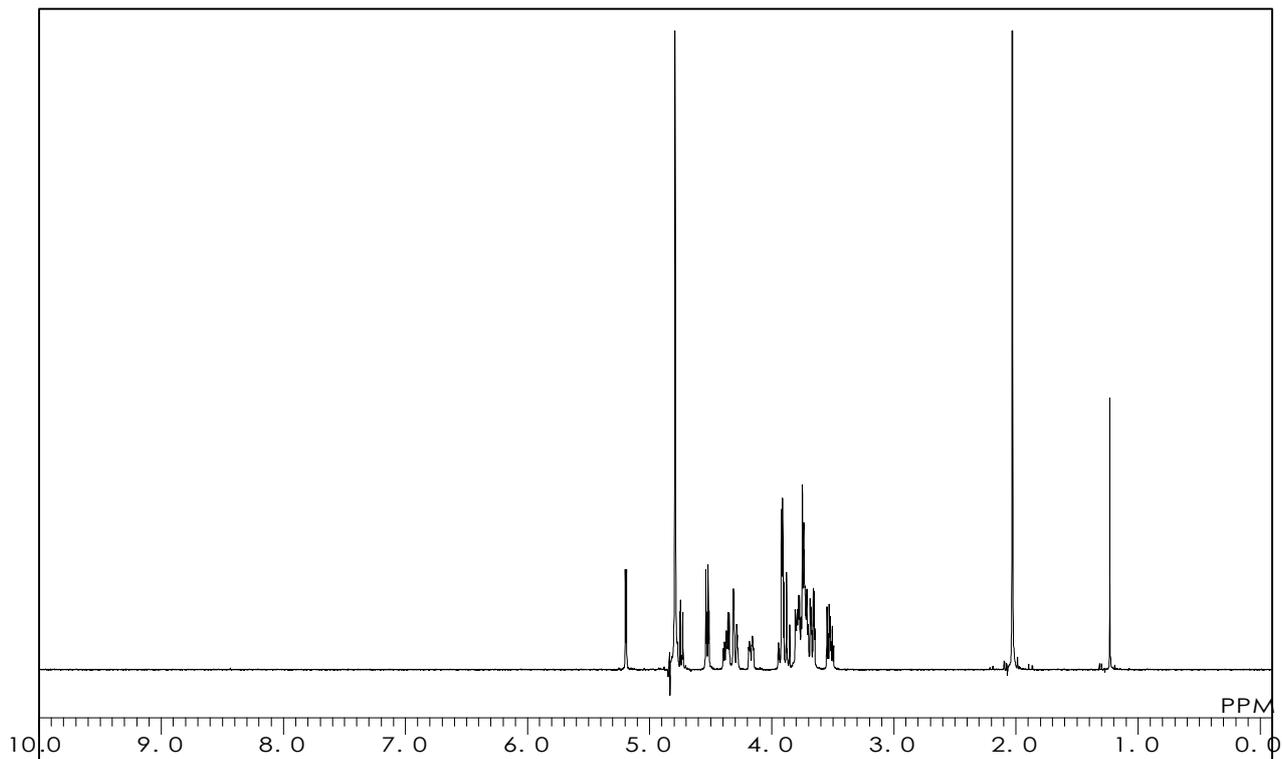
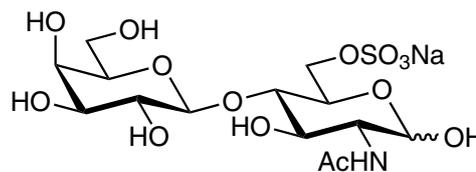
L2

$C_{14}H_{24}NNaO_{14}S = 485.39$ [145447-78-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

L0325

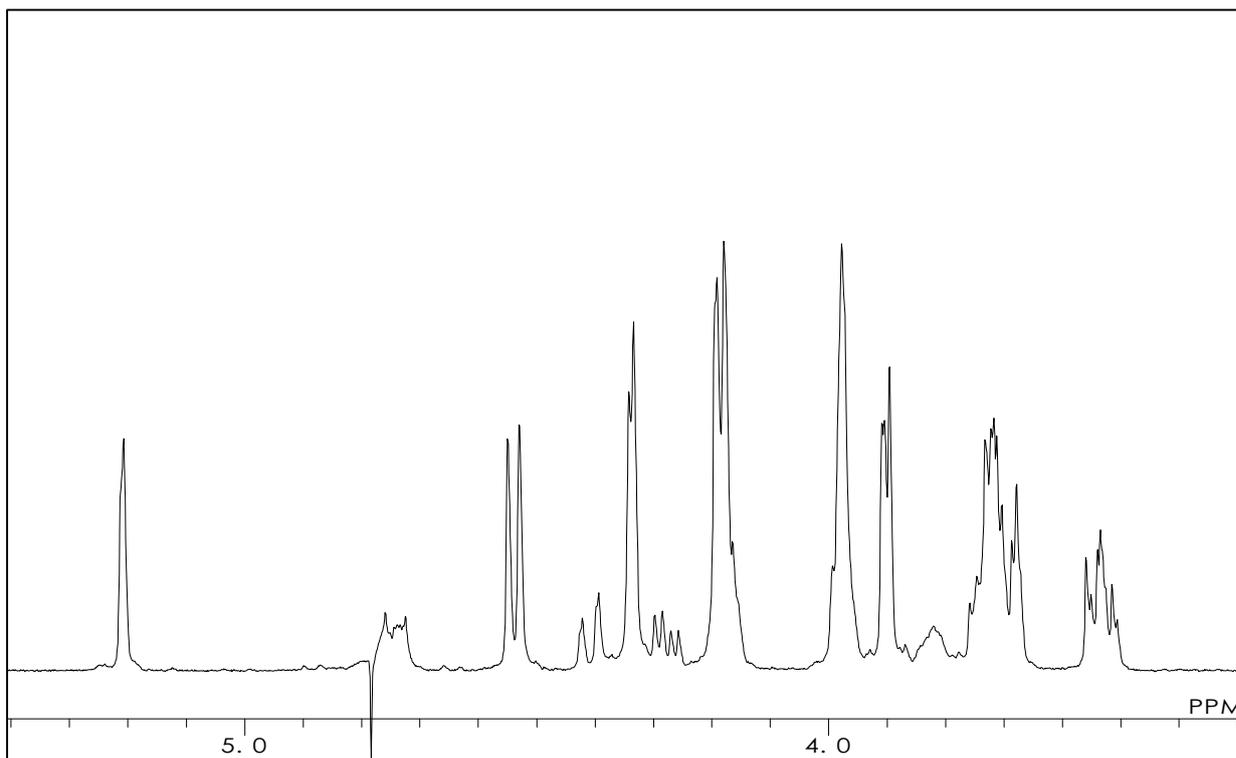
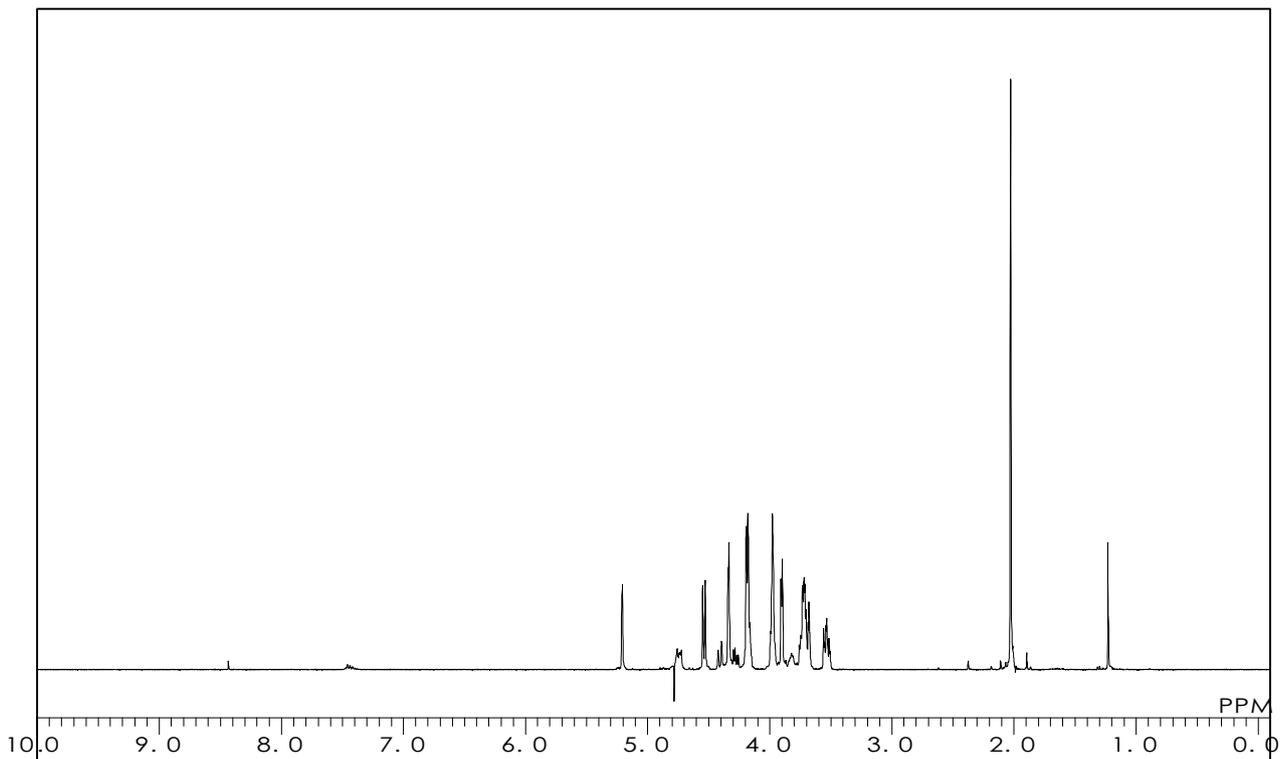
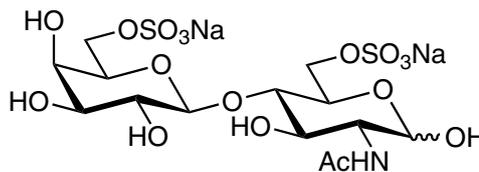
L4

$C_{14}H_{23}NNa_2O_{17}S_2 = 587.43$ [321897-68-1]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.9 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

M1733

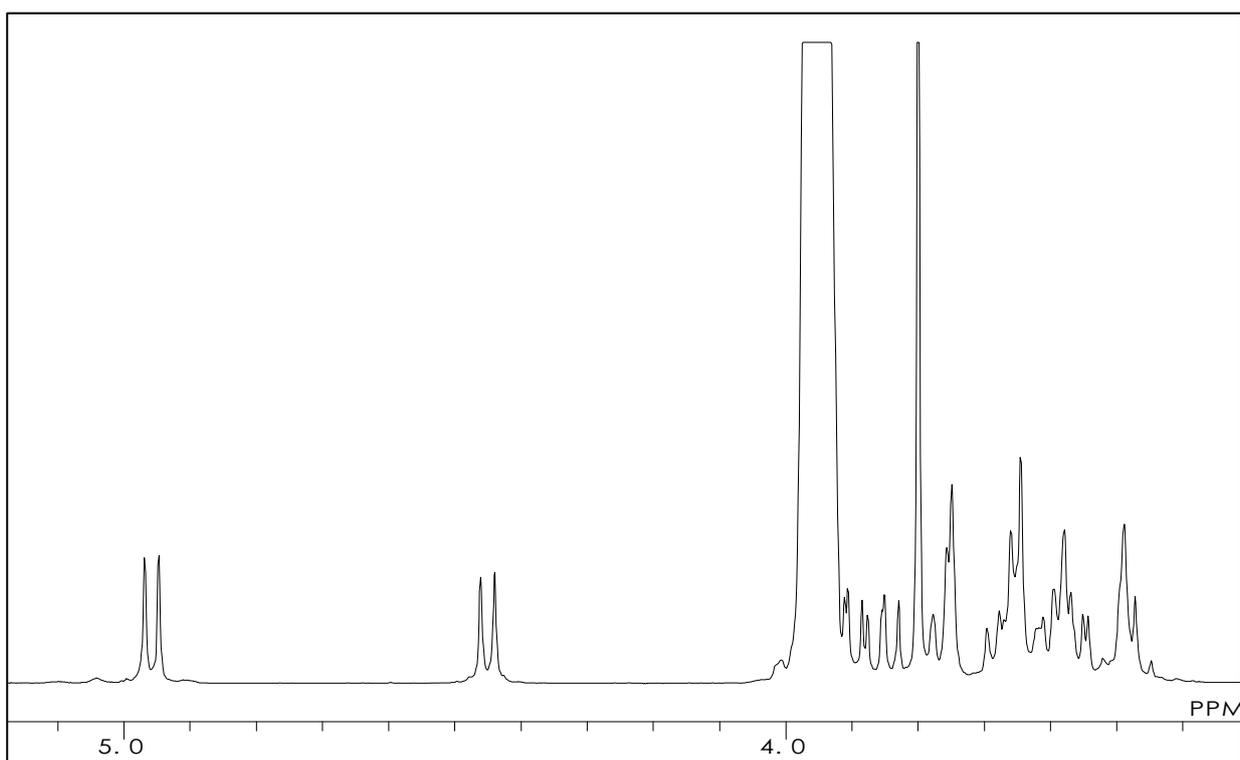
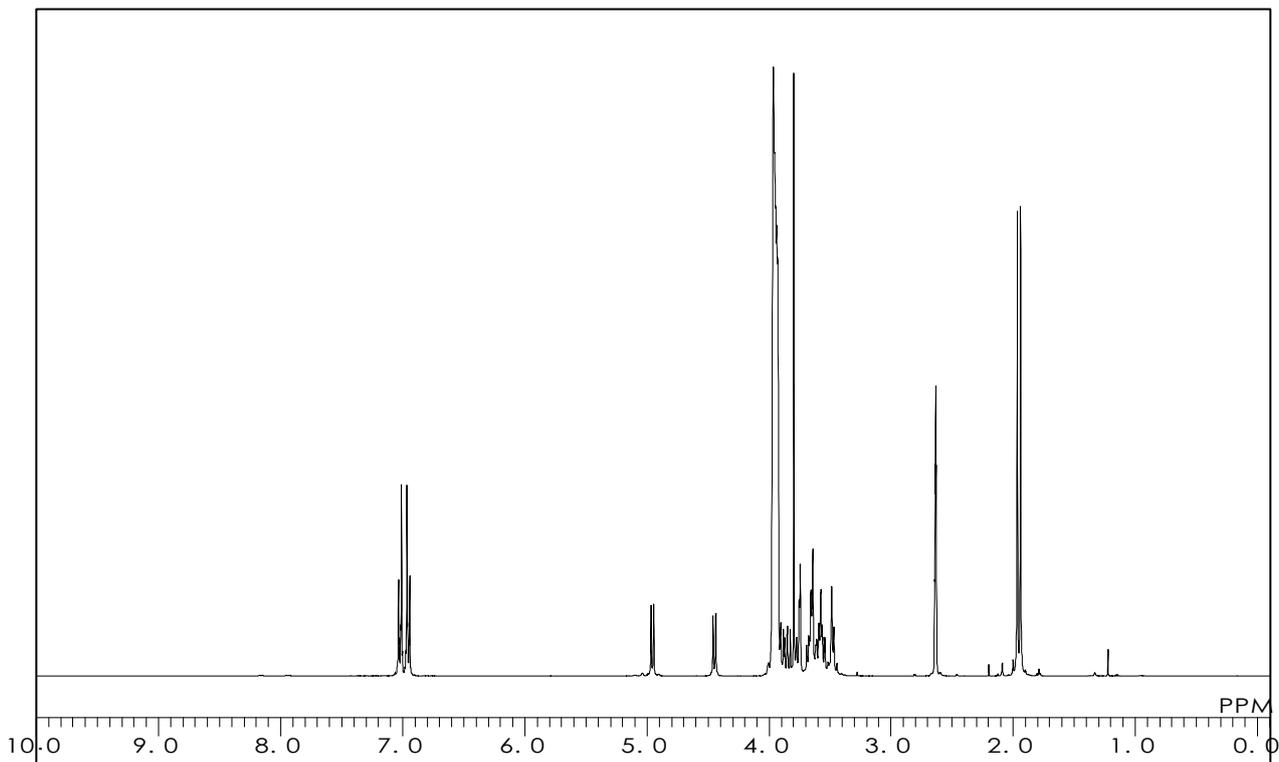
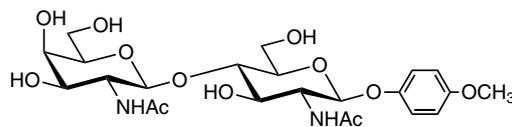
LacDiNAc MP Glycoside

$C_{23}H_{34}N_2O_{12} = 530.53$

Solvent : DMSO- d_6 /D $_2$ O=49/1

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.3 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1776

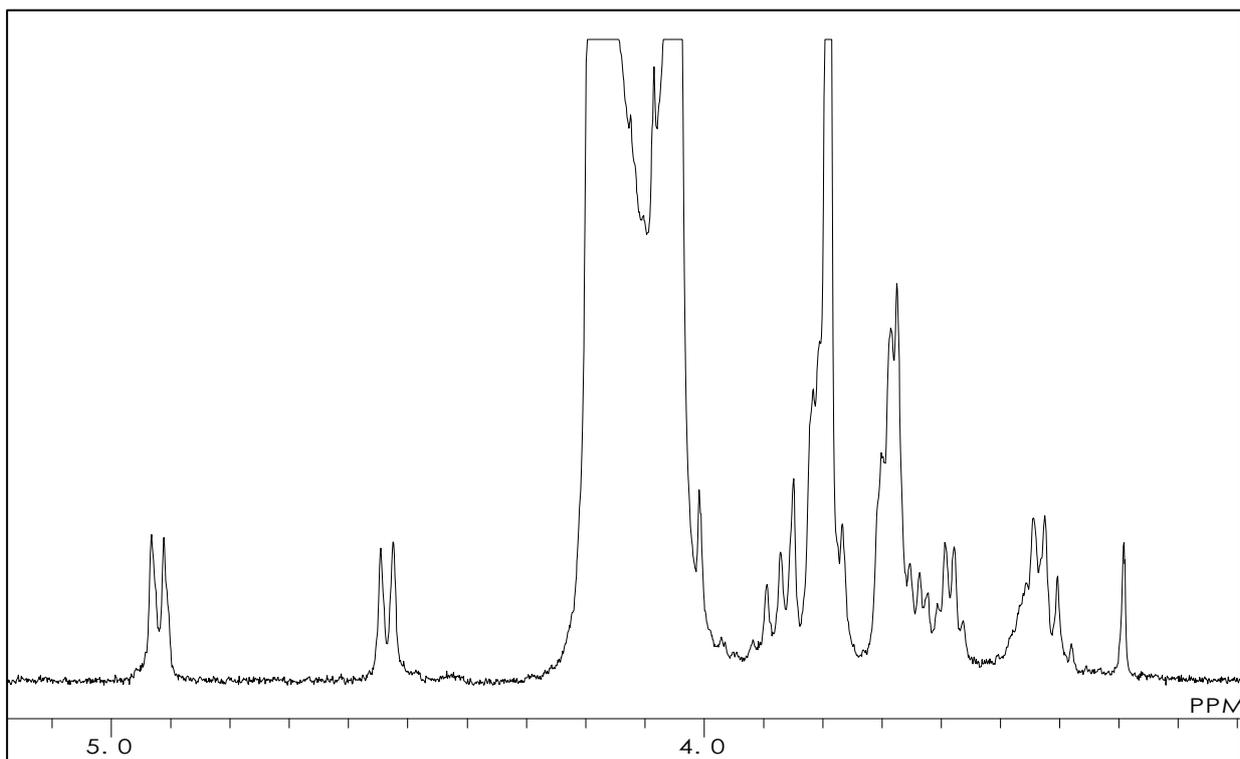
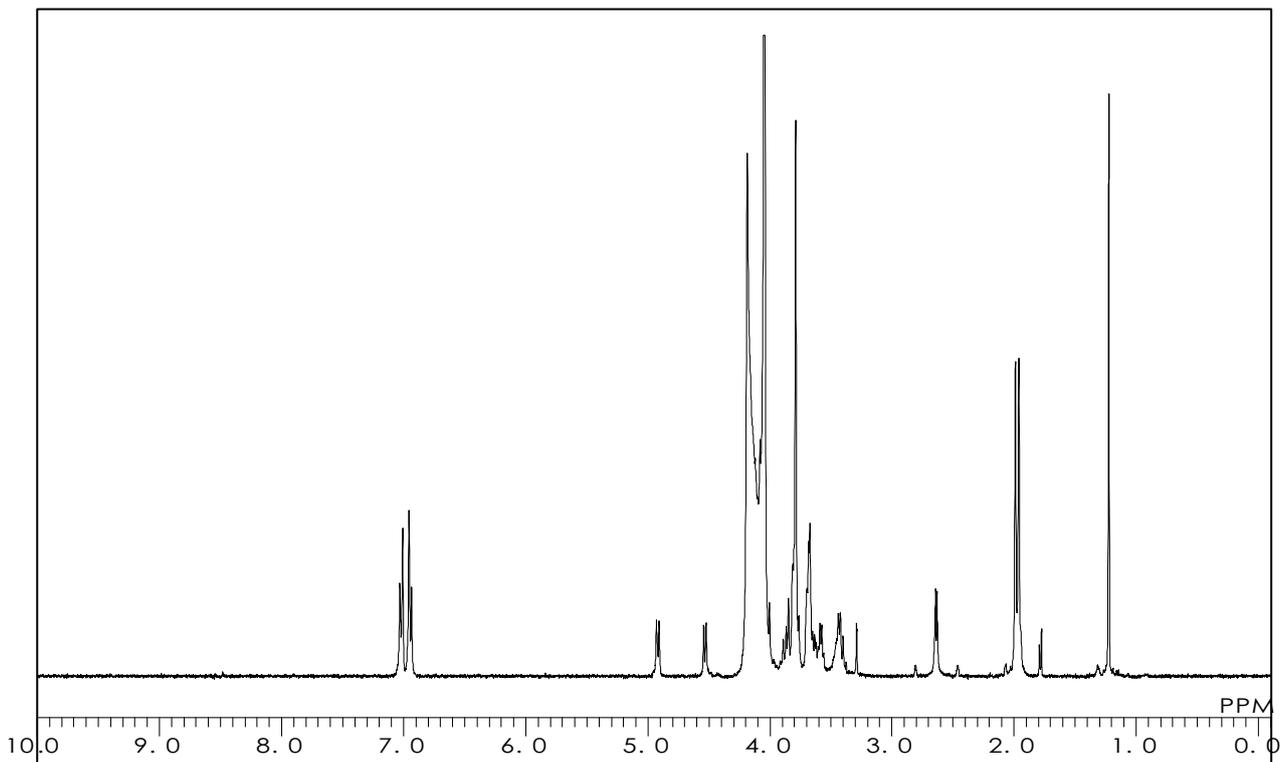
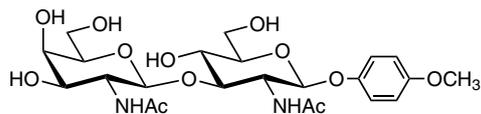
LacDiNAc(I) MP Glycoside

$C_{23}H_{34}N_2O_{12} = 530.53$

Solvent : DMSO- d_6 /D $_2$ O=49/1

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 50.0 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

N0791

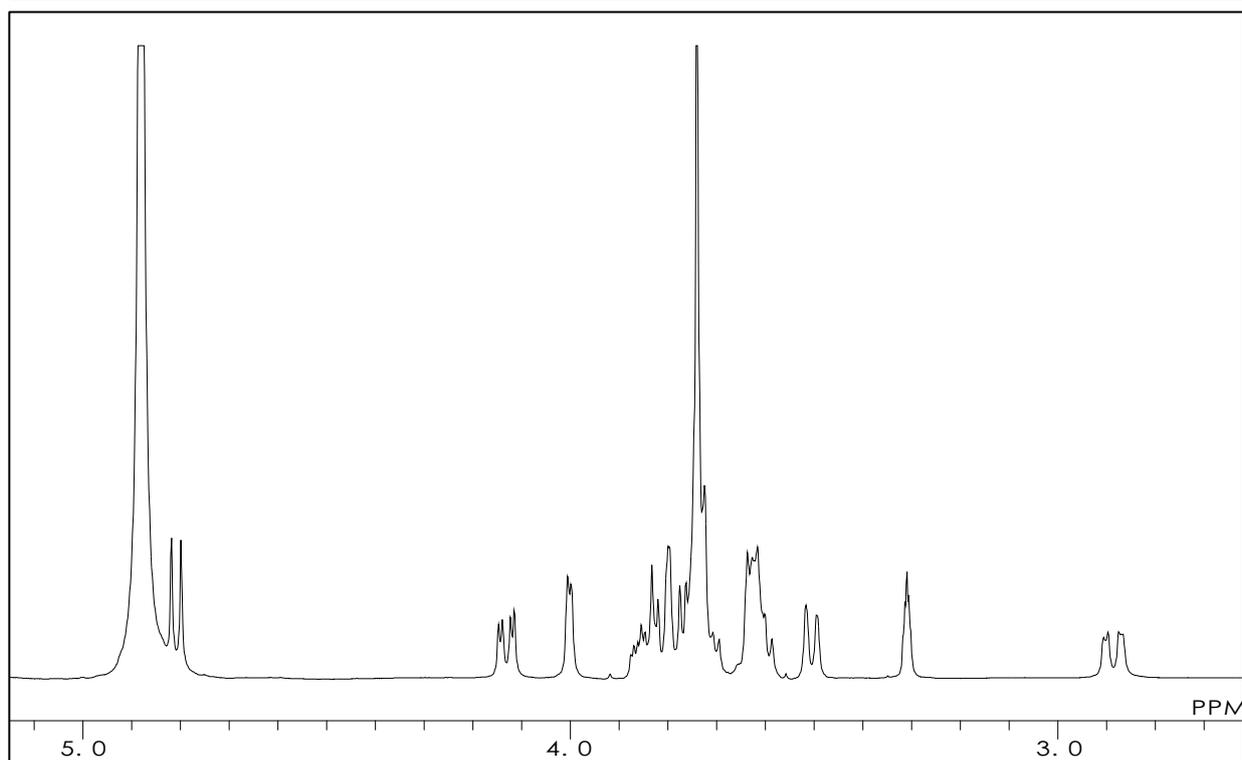
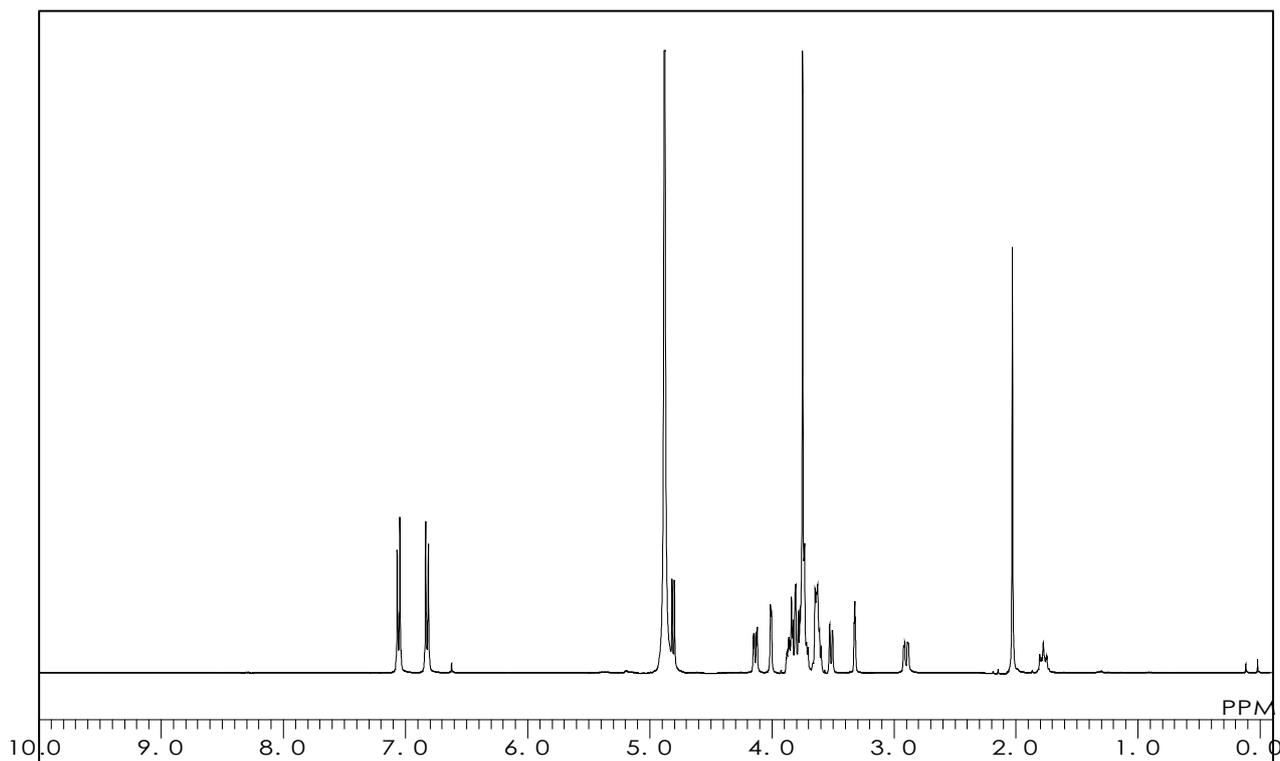
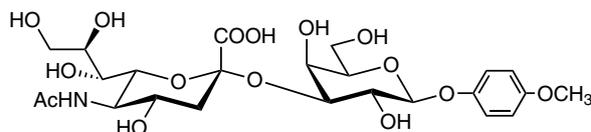
Neu5Aca(2-3)Gal β MP Glycoside

$C_{24}H_{35}NO_{15} = 577.54$ [159922-54-0]

Solvent : CD_3OD

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 23.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N0792

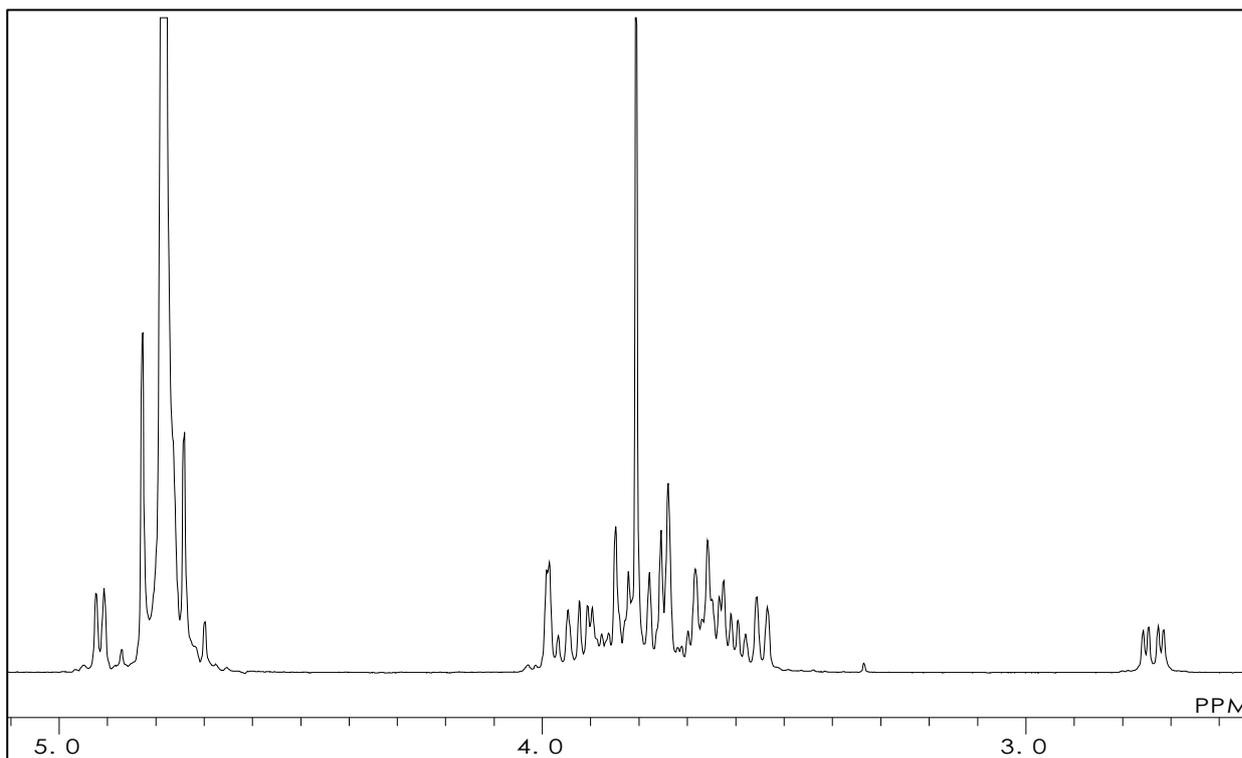
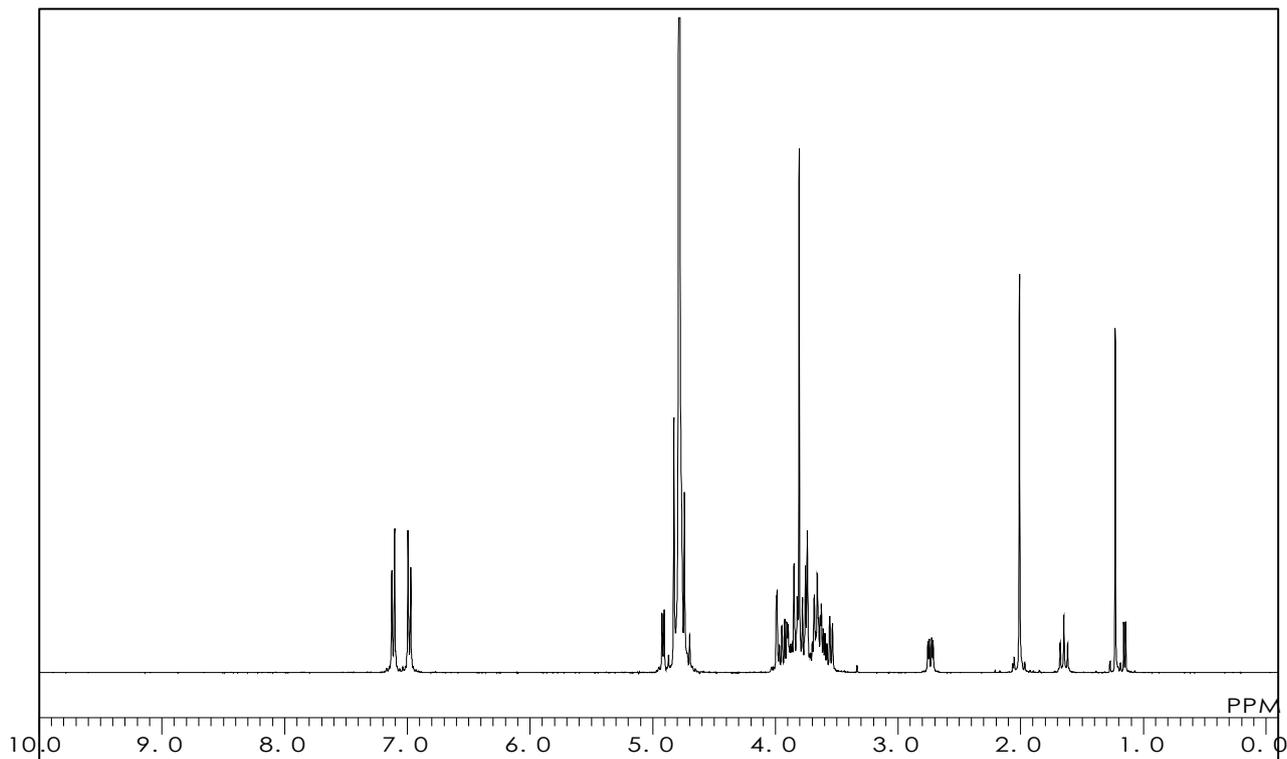
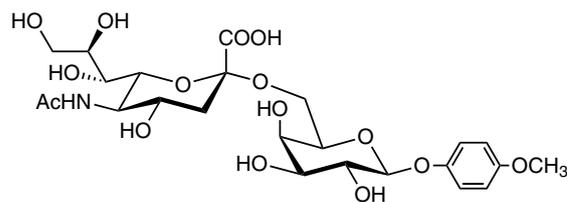
Neu5Ac α (2-6)Gal β MP Glycoside

C₂₄H₃₅NO₁₅ = 577.54

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.0 °C



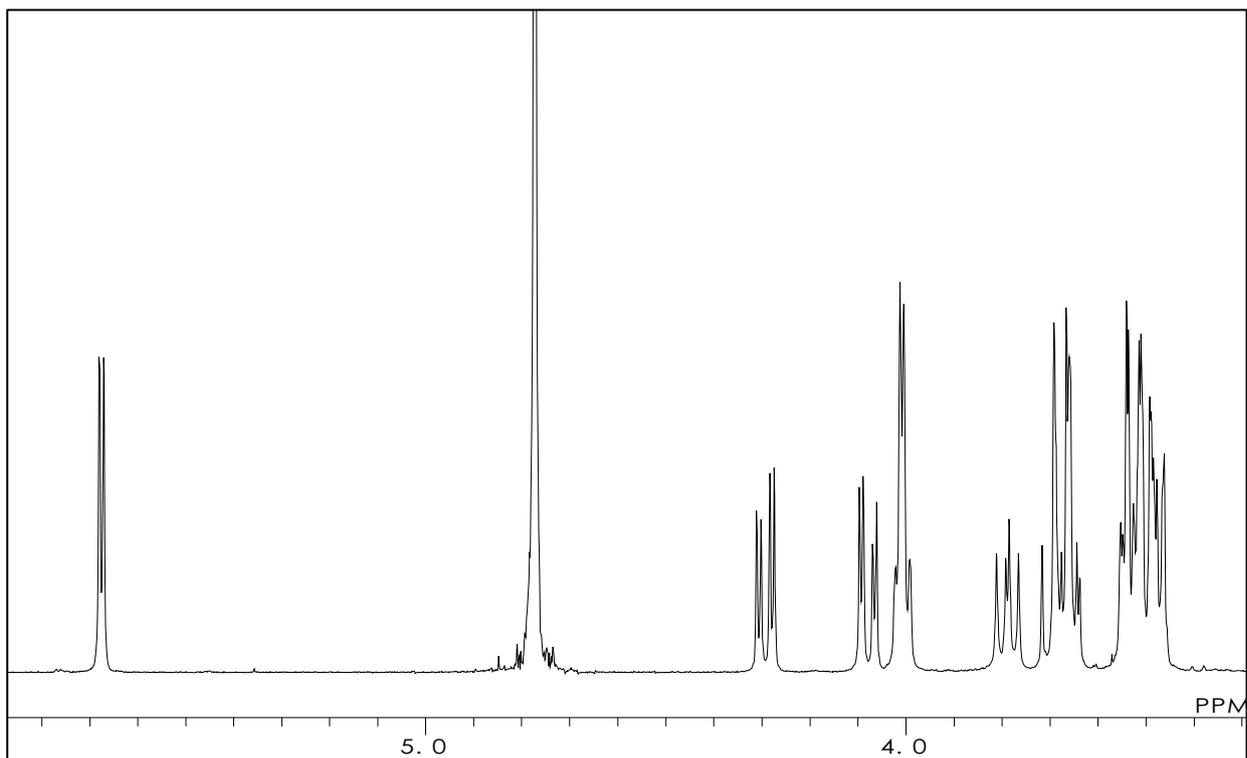
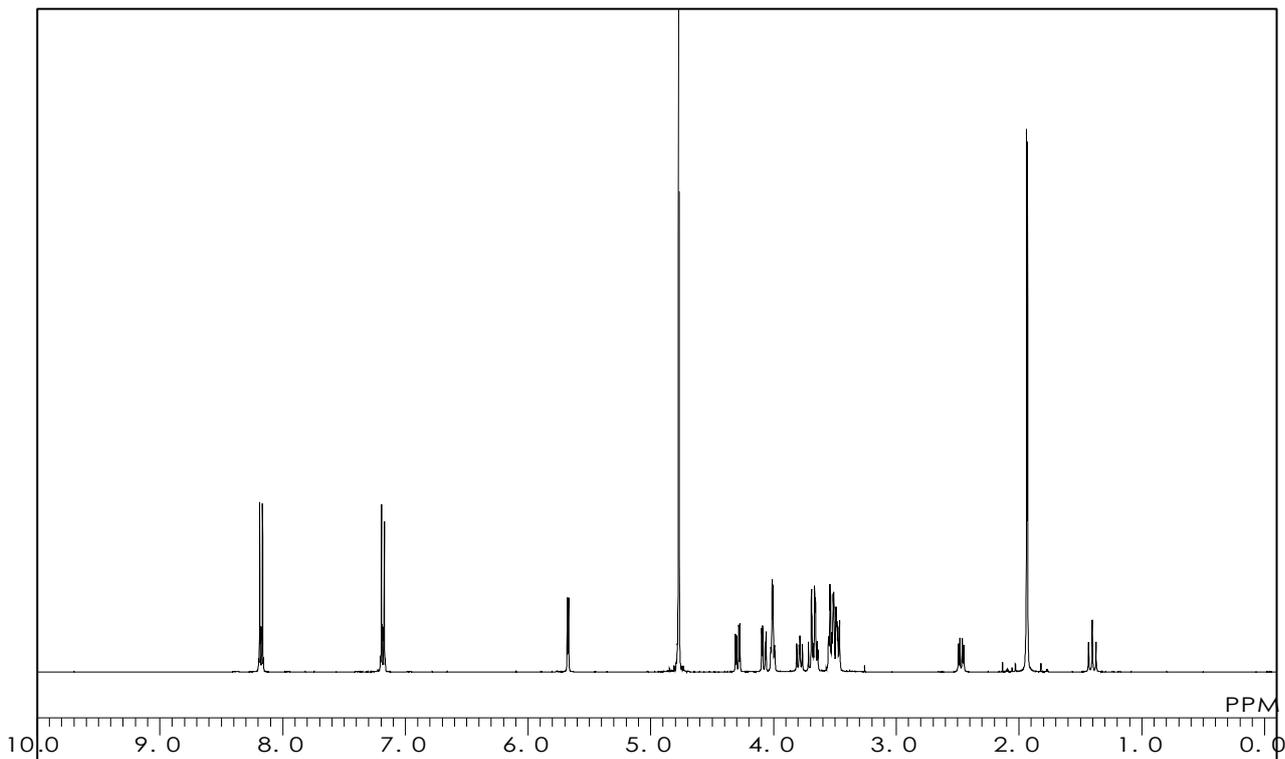
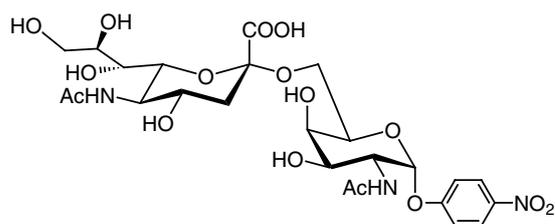
N0890

Neu5Ac α (2-6)GalNAc- α -pNP

$C_{25}H_{35}N_3O_{16} = 633.56$

Solvent : D₂O

Measured Temperature : 16.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1761

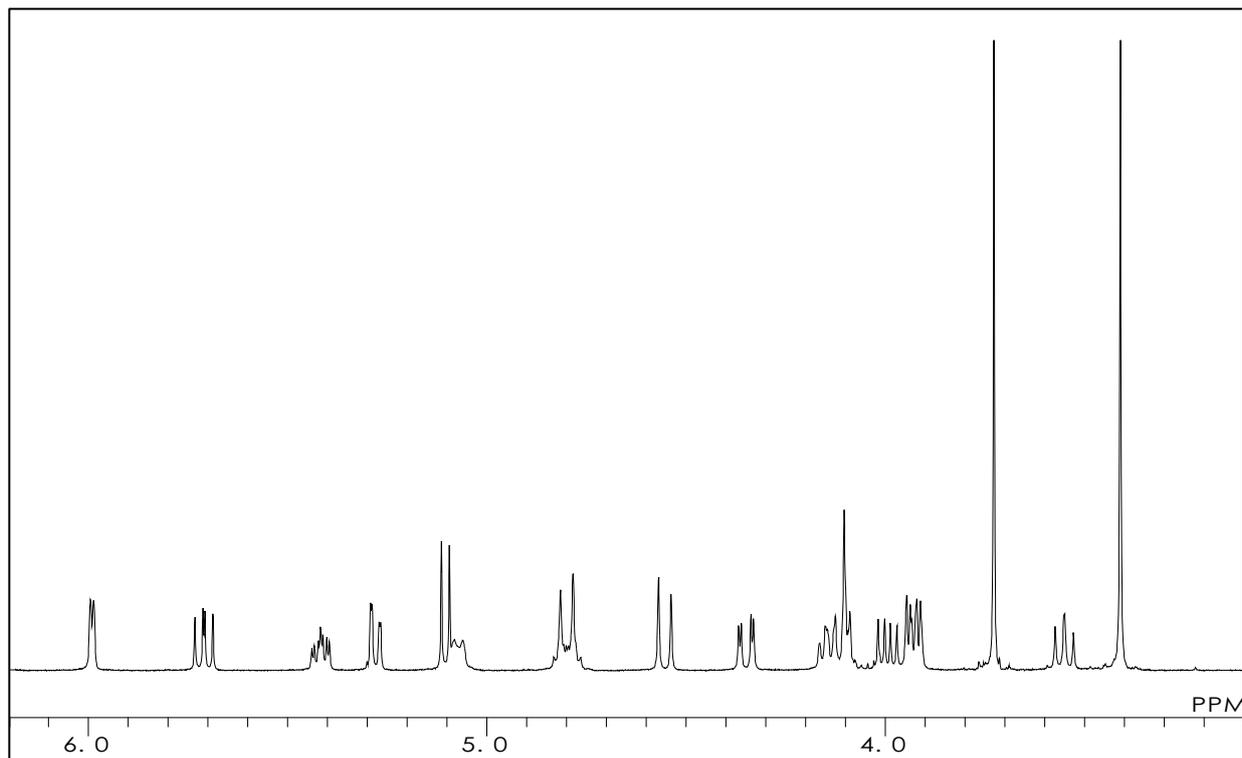
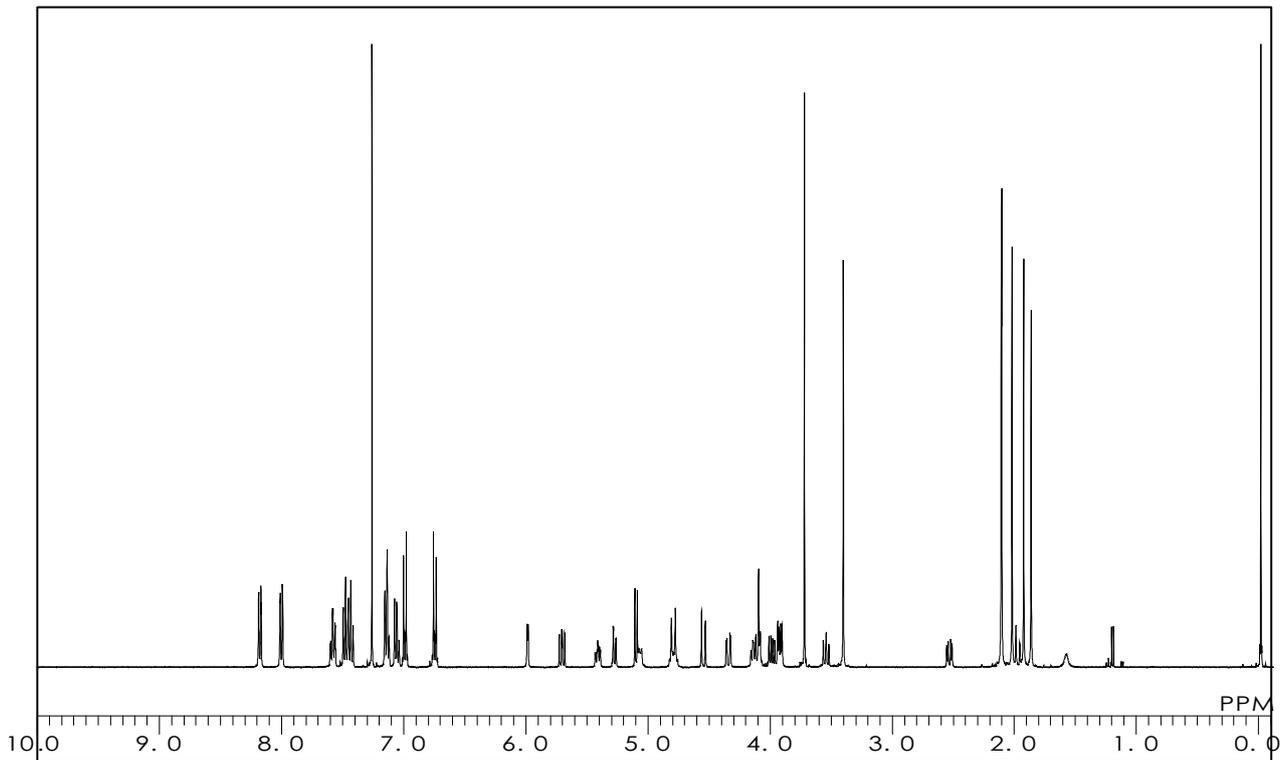
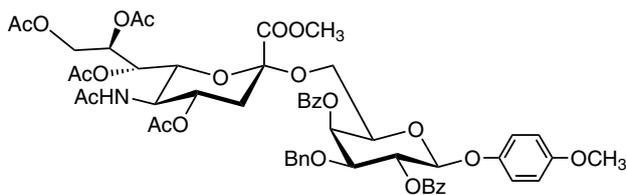
Neu5Ac[1Me,4789Ac] α (2-6)Gal[24Bz,3Bn]- β -MP

C₅₄H₅₉NO₂₁ = 1058.05

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 21.2 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

N0846

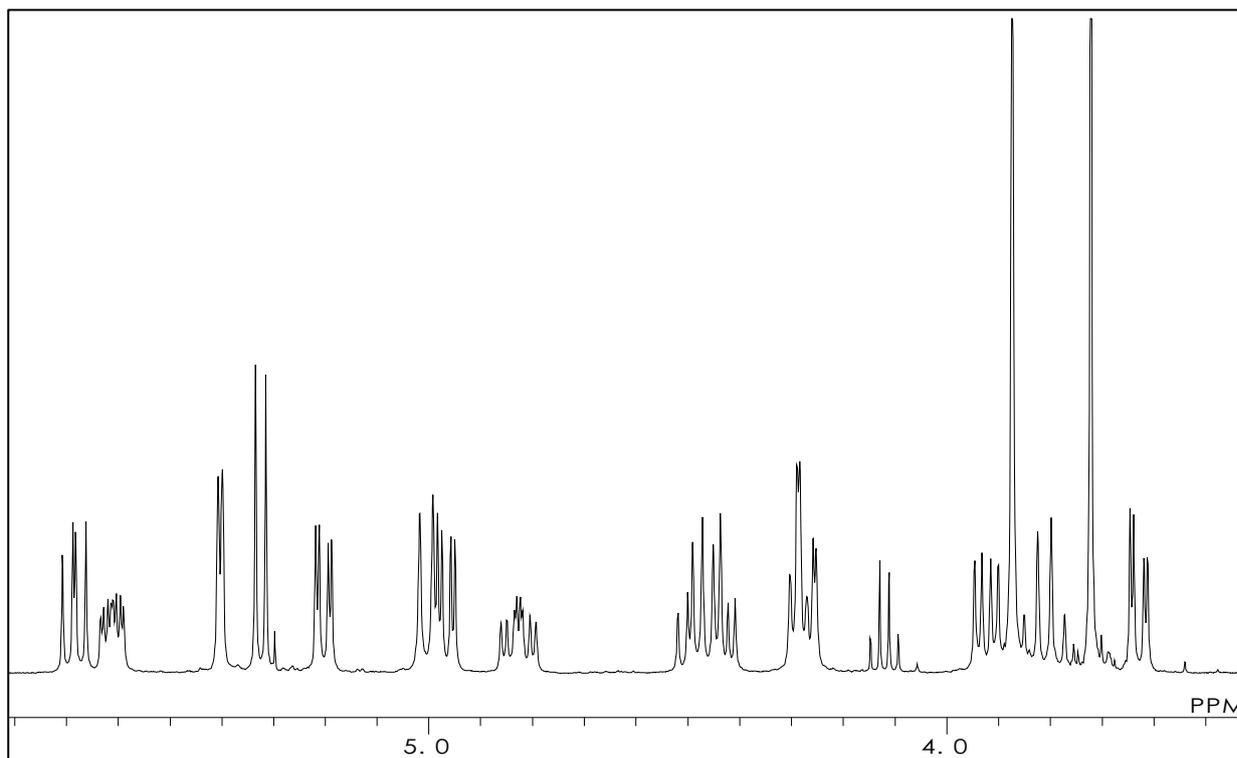
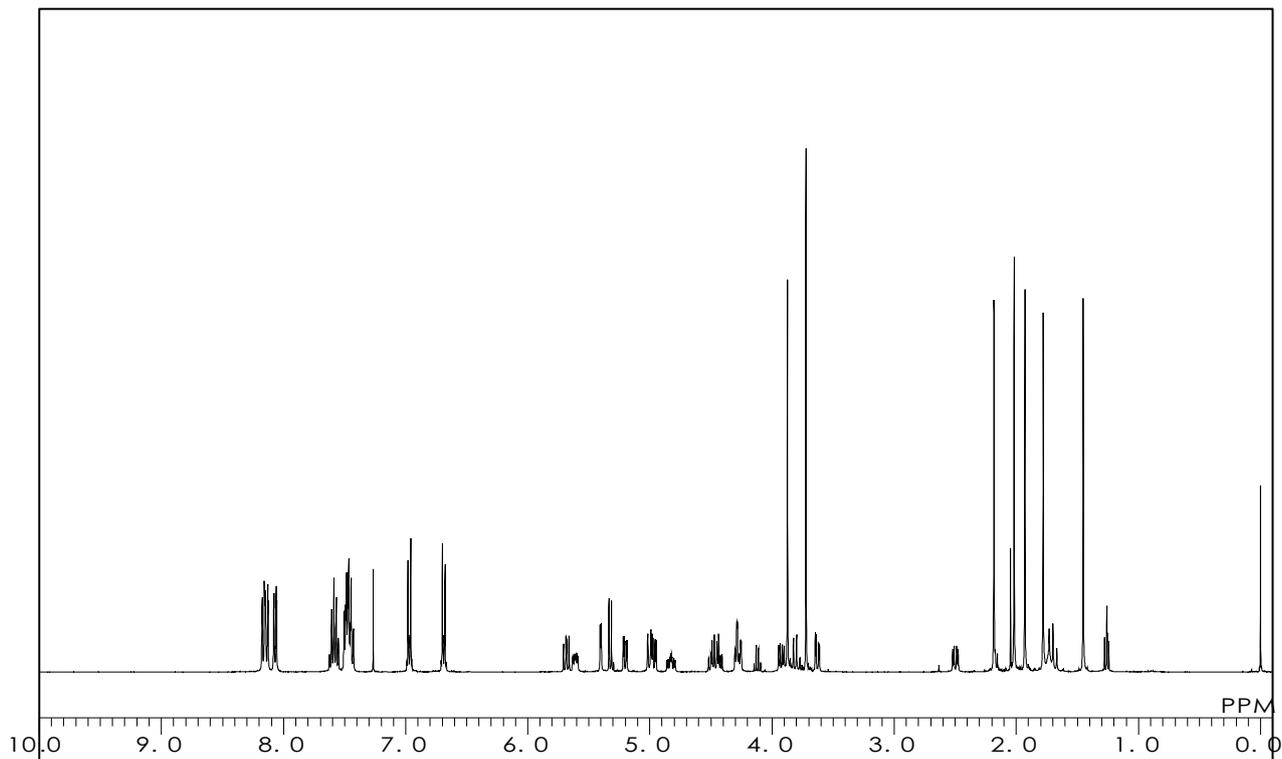
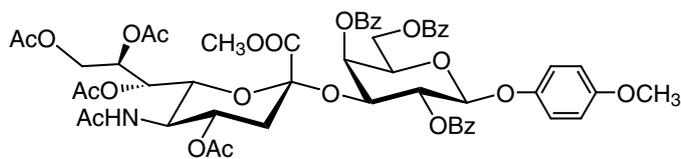
Neu5Ac[1Me,4789Ac] α (2-3)Gal[246Bz]- β -MP

$C_{54}H_{57}NO_{22} = 1072.04$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 21.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M1763

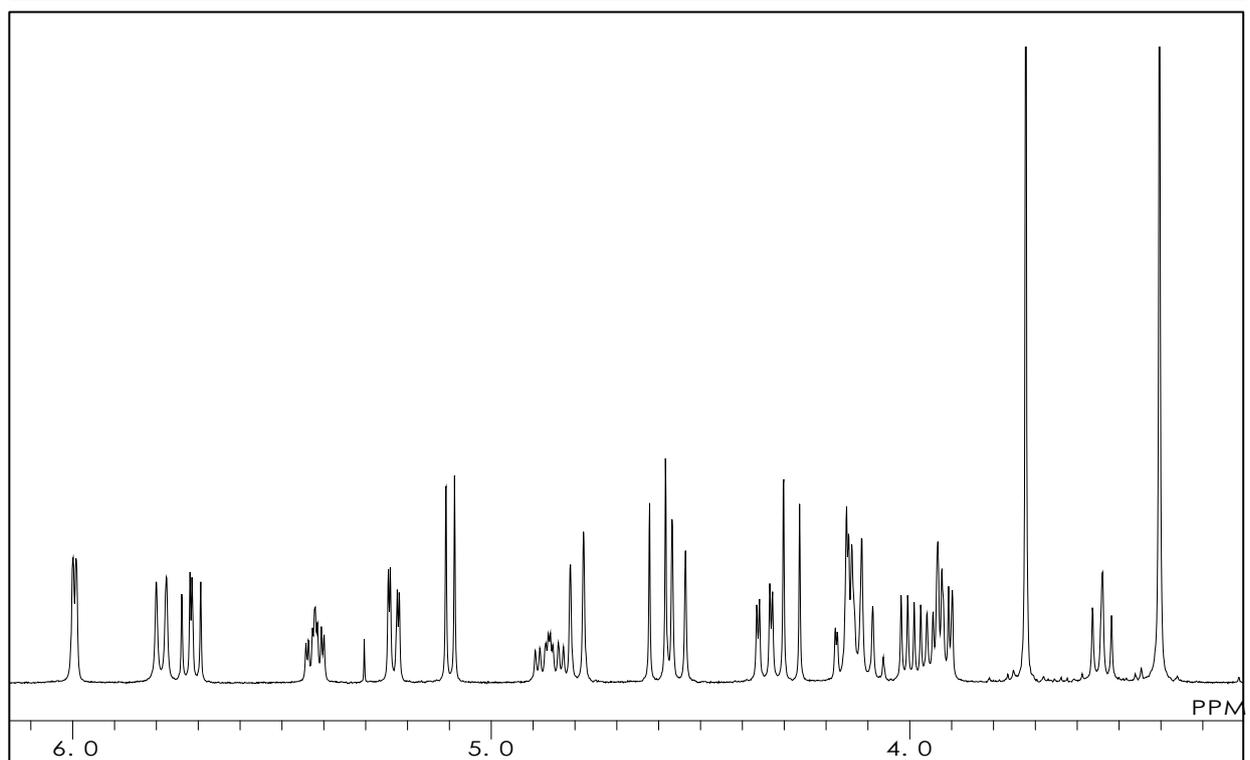
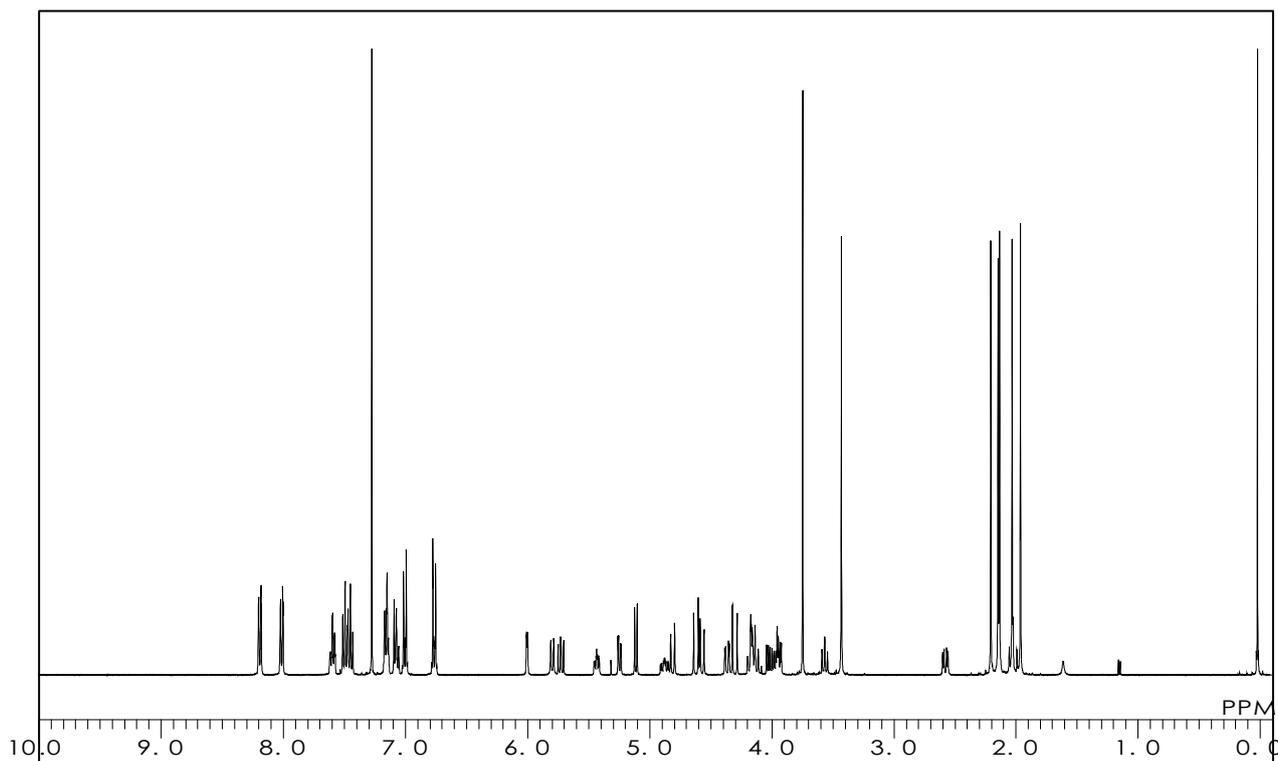
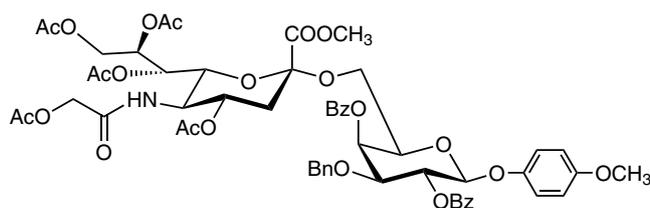
Neu5GcAc[1Me,4789Ac] α (2-6)Gal[24Bz,3Bn]- β -MP

$C_{56}H_{61}NO_{23} = 1116.09$

Solvent : $CDCl_3$

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 20.9 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

N0816

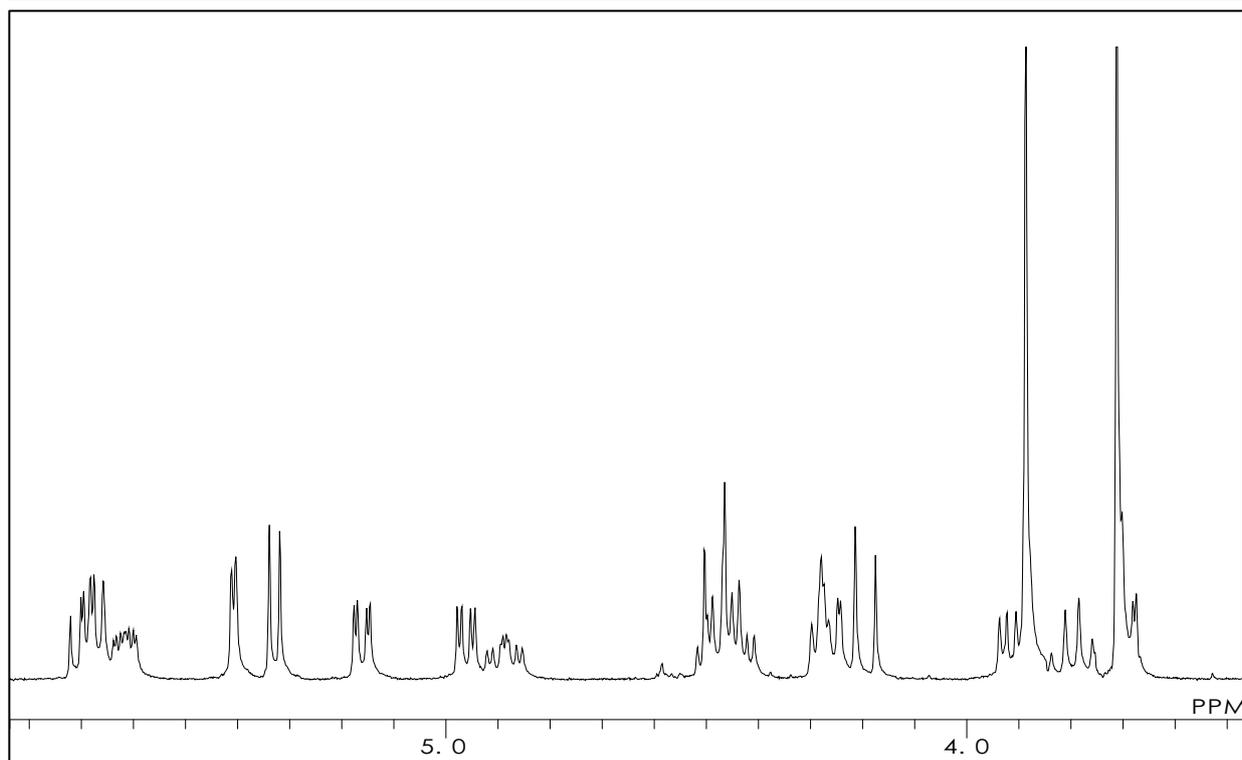
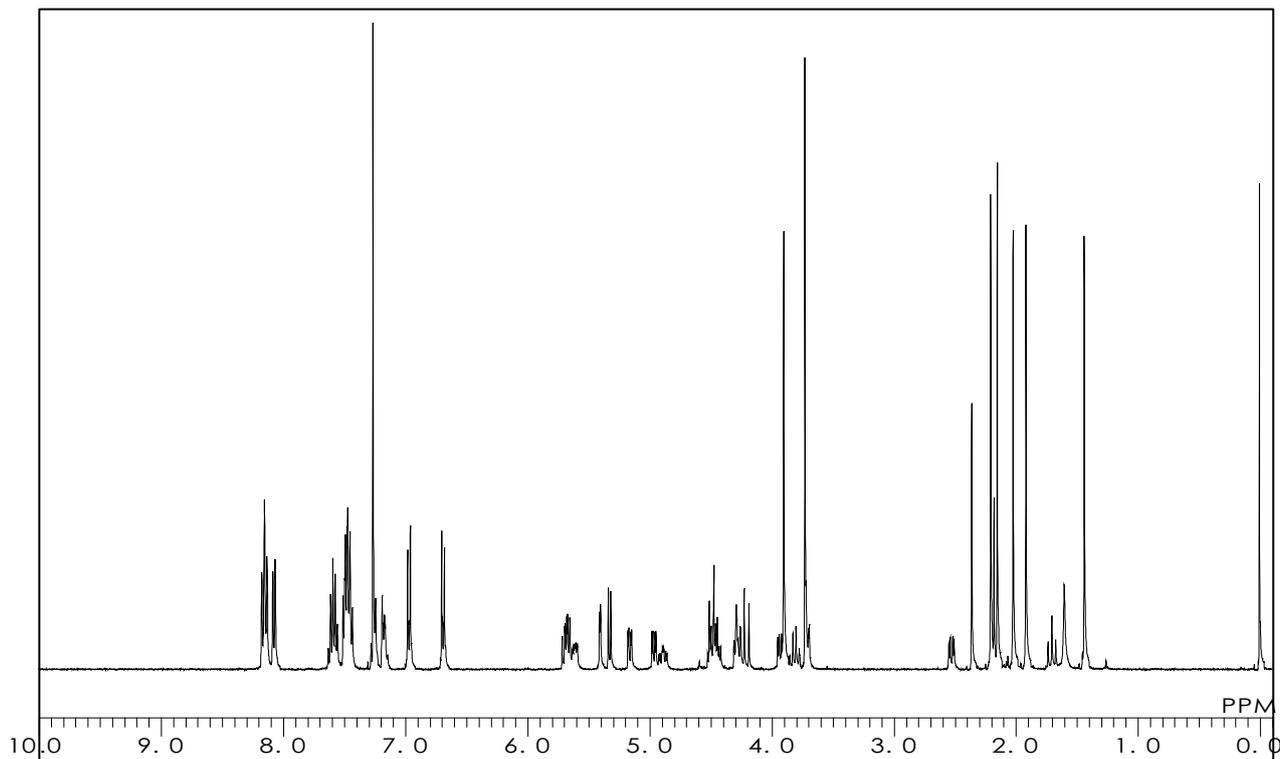
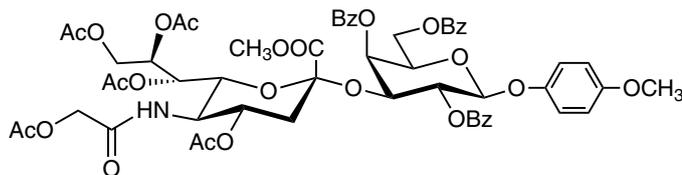
Neu5GcAc[1Me,4789Ac] α (2-3)Gal[246Bz]- β -MP

C₅₆H₅₉NO₂₄ = 1130.07

Solvent : CDCl₃

Internal Standard : Si(CH₃)₄

Measured Temperature : 20.5 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

A2631

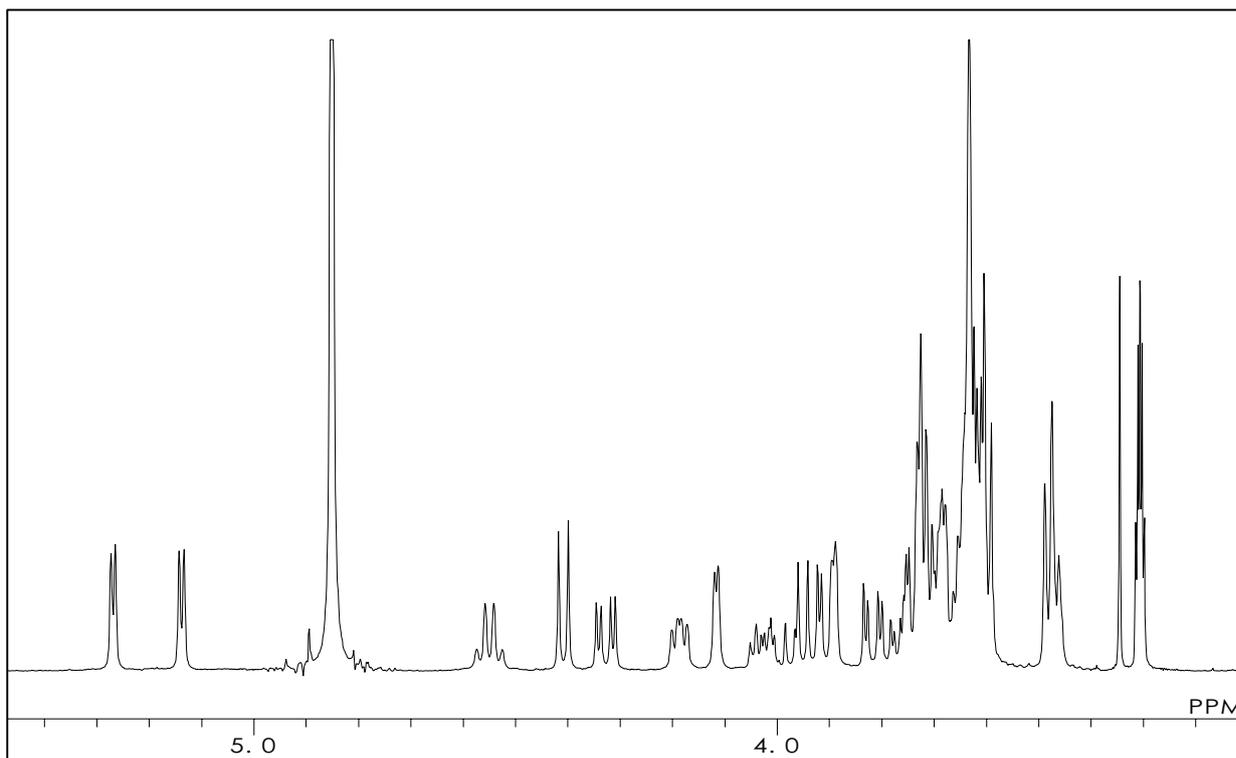
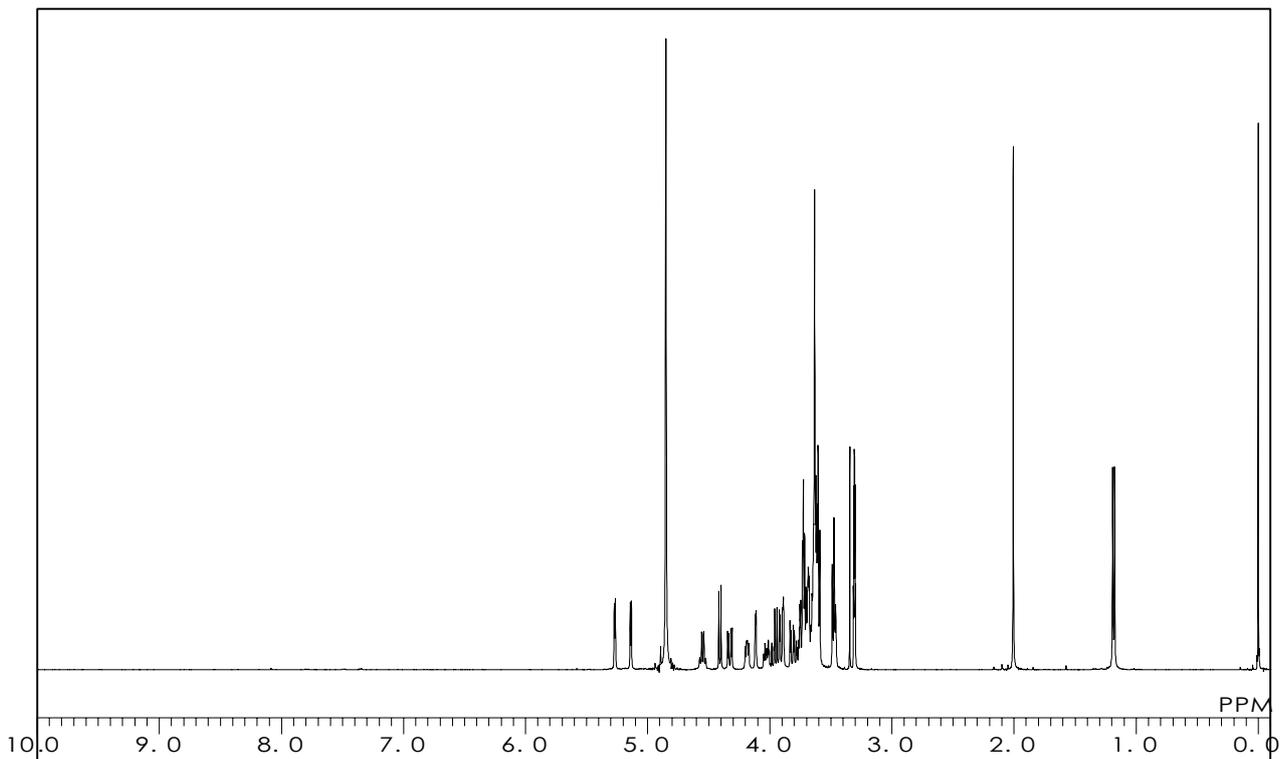
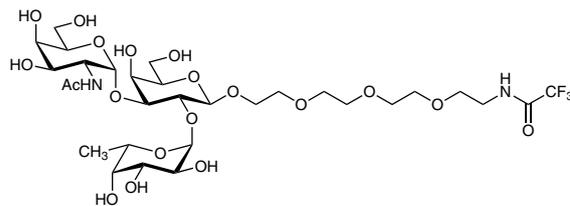
A Antigen PEG-trifluoroacetamide

$C_{30}H_{51}F_3N_2O_{19} = 800.73$

Solvent : CD_3OD

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 24.1 °C



B4172

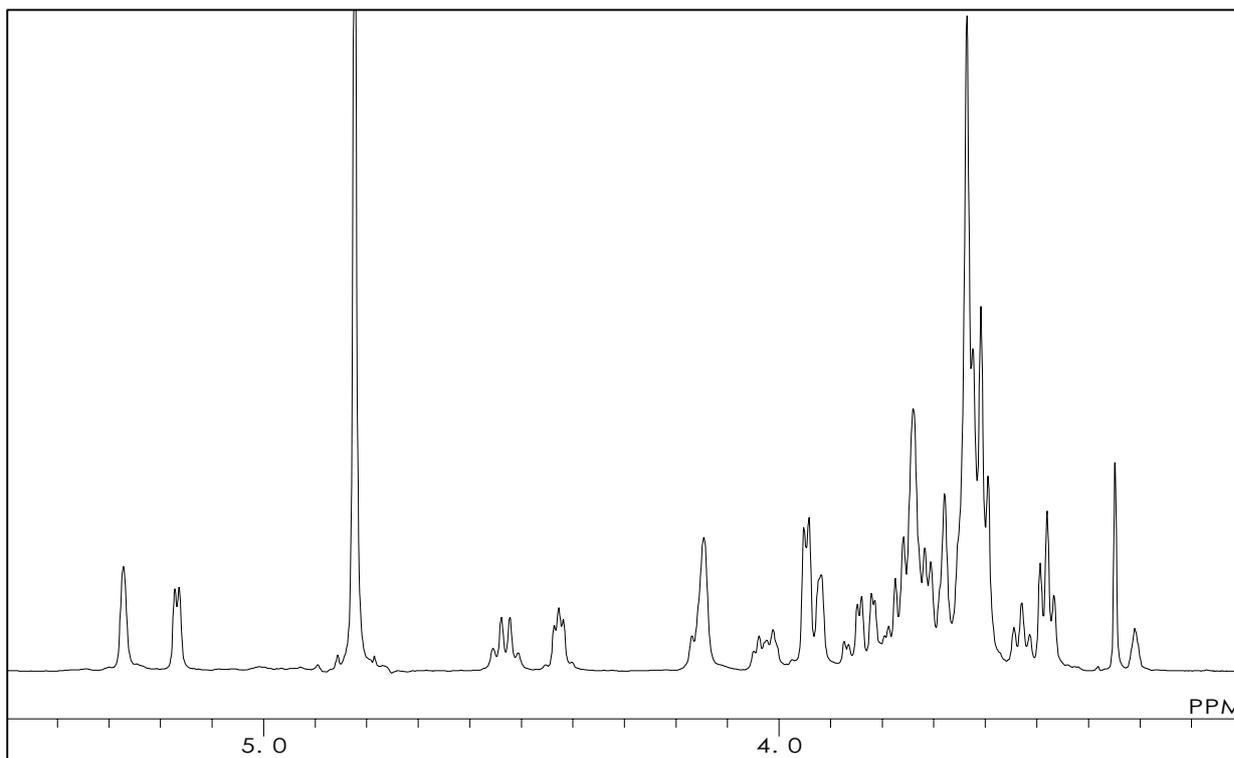
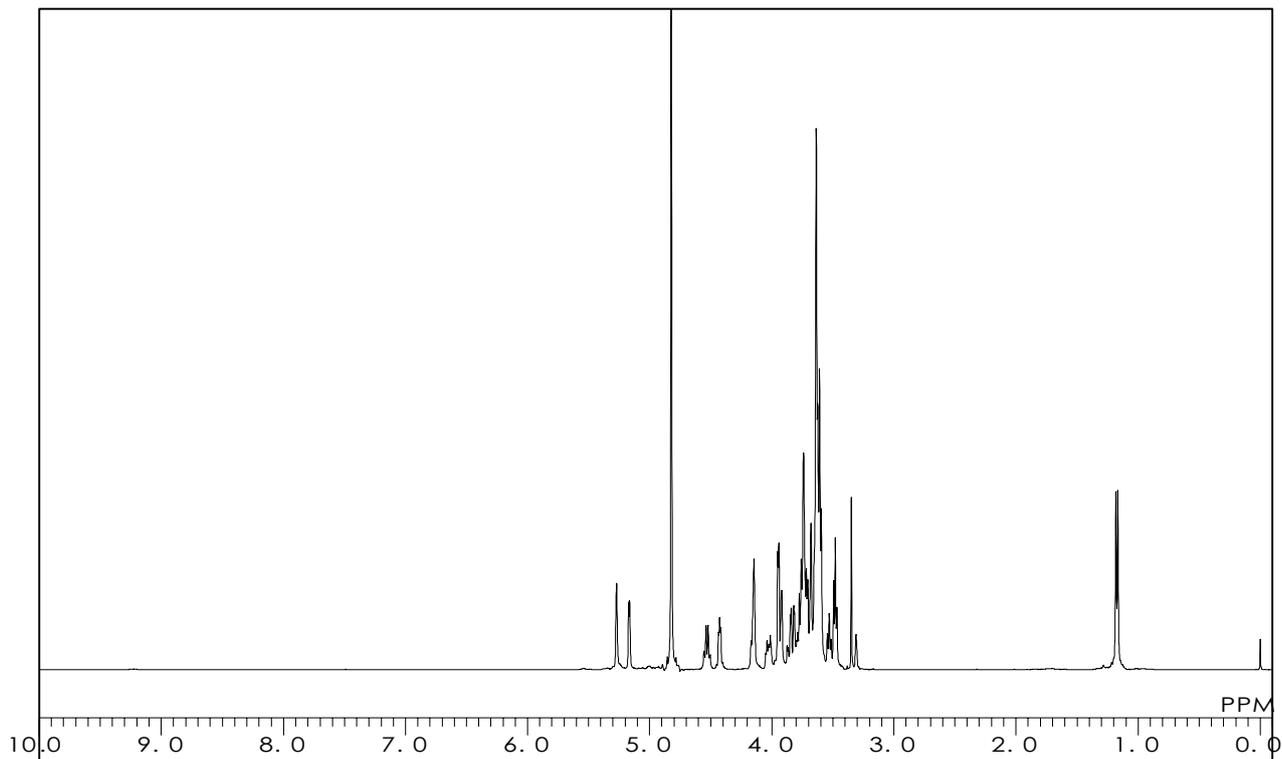
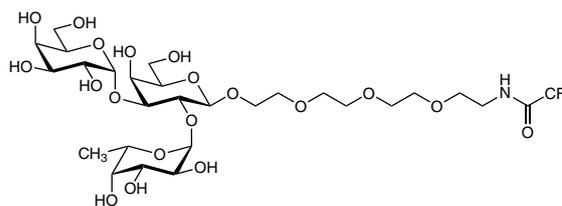
B Antigen PEG-trifluoroacetamide

$C_{28}H_{48}F_3NO_{19} = 759.68$

Solvent : CD_3OD

Internal Standard : $Si(CH_3)_4$

Measured Temperature : 23.2 °C

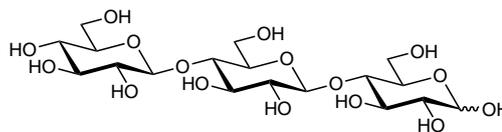


本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

C2795

Cellotriose

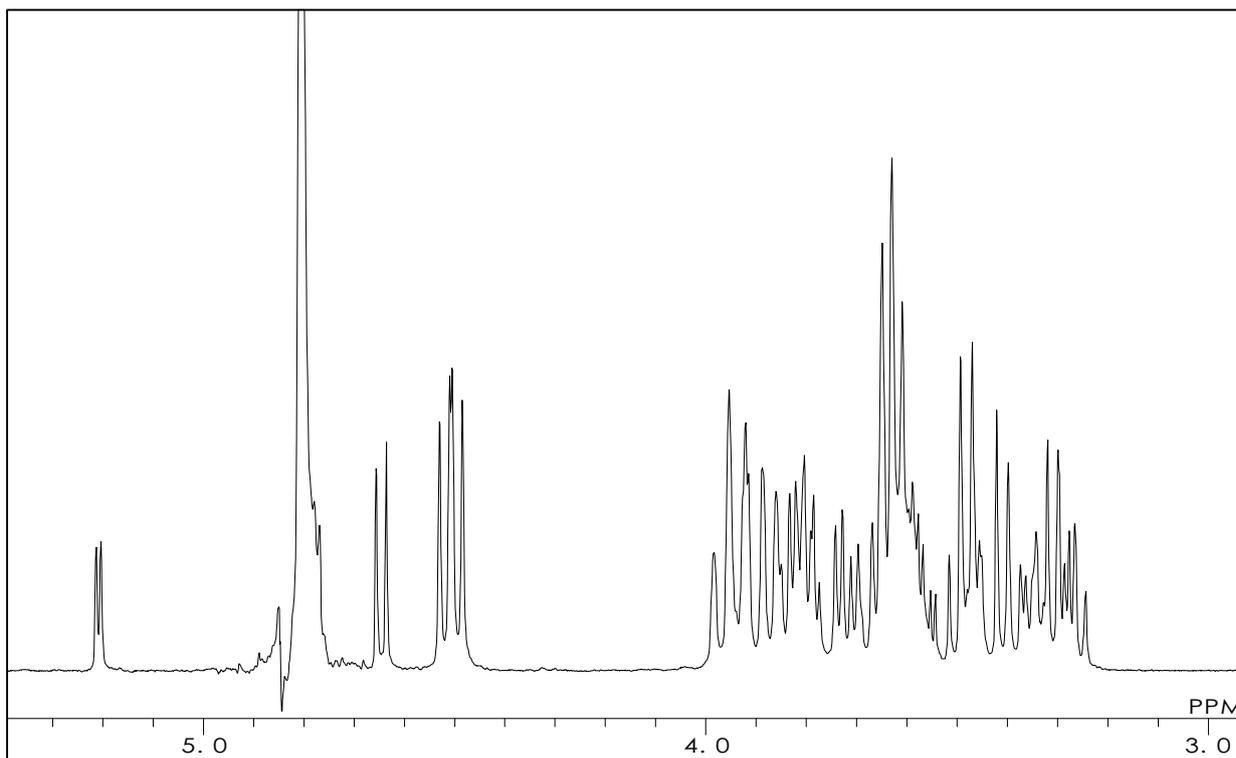
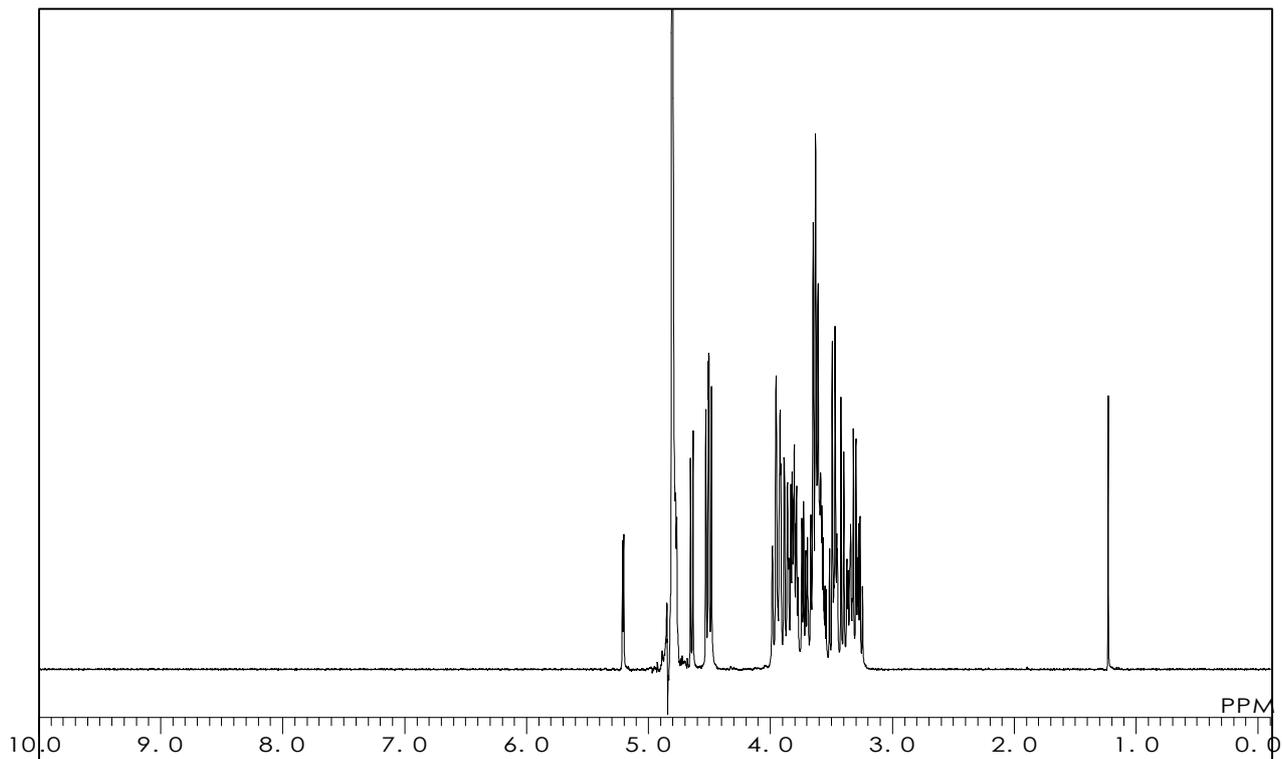
$C_{18}H_{32}O_{16} = 504.44$ [33404-34-1]



Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.0 °C



F0895

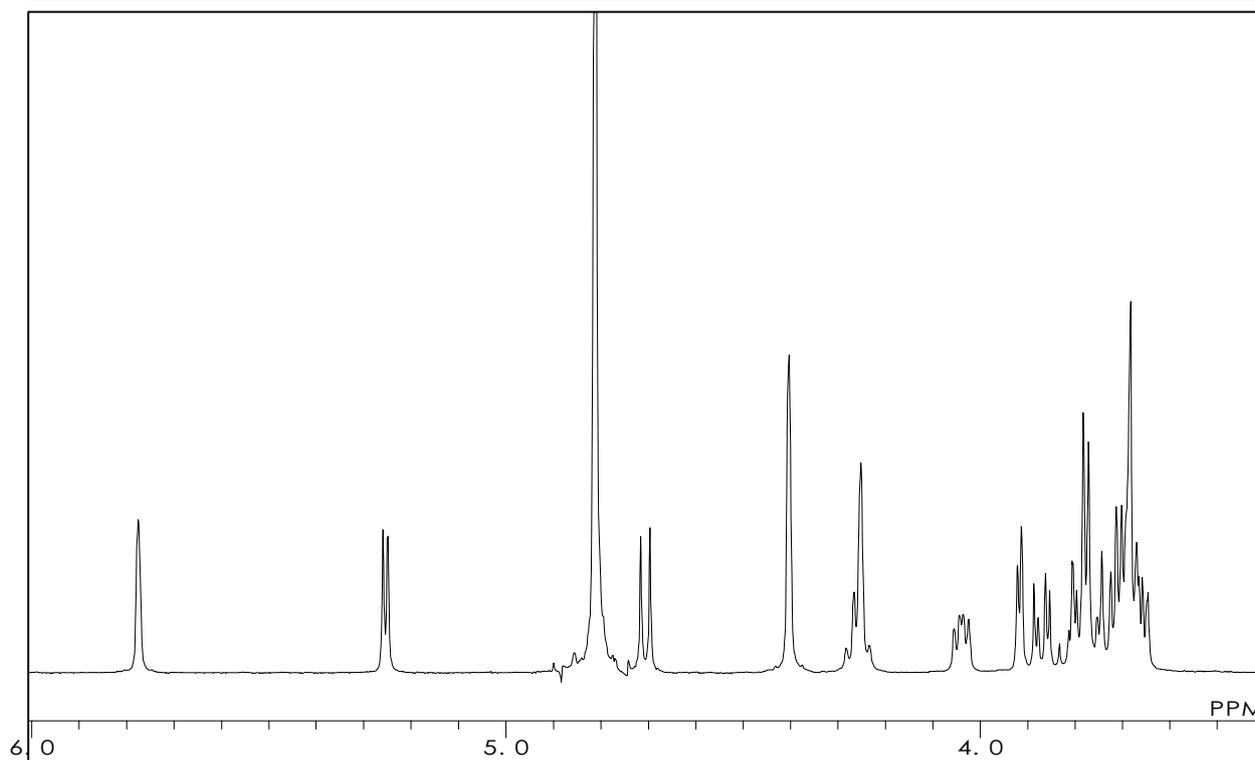
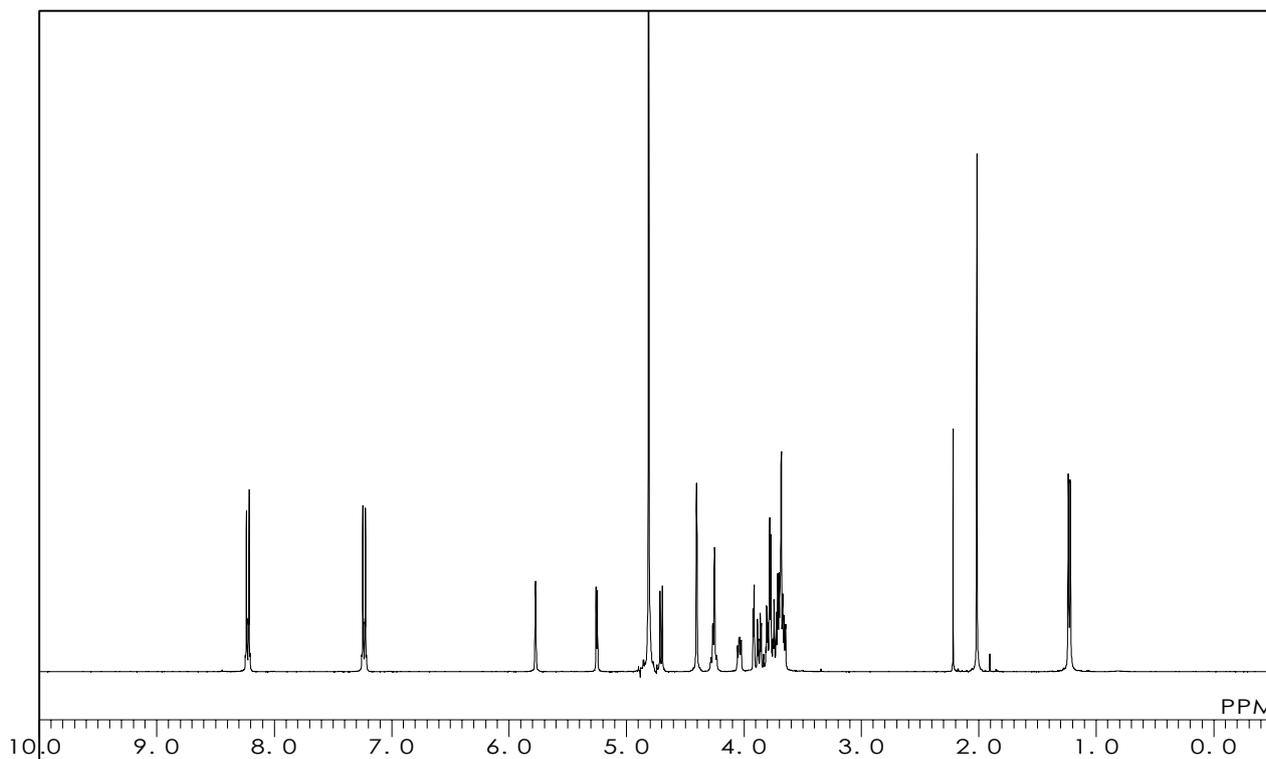
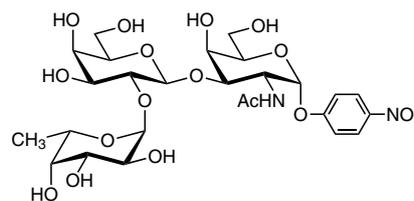
Fuc α (1-2)Gal β (1-3)GalNAc- α -pNP (=H type 3 α -pNP Glycoside)

$C_{26}H_{38}N_2O_{17} = 650.59$ [1105508-81-3]

Solvent : D_2O

Internal Standard : Acetone (δ 2.22)

Measured Temperature : 21.6 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

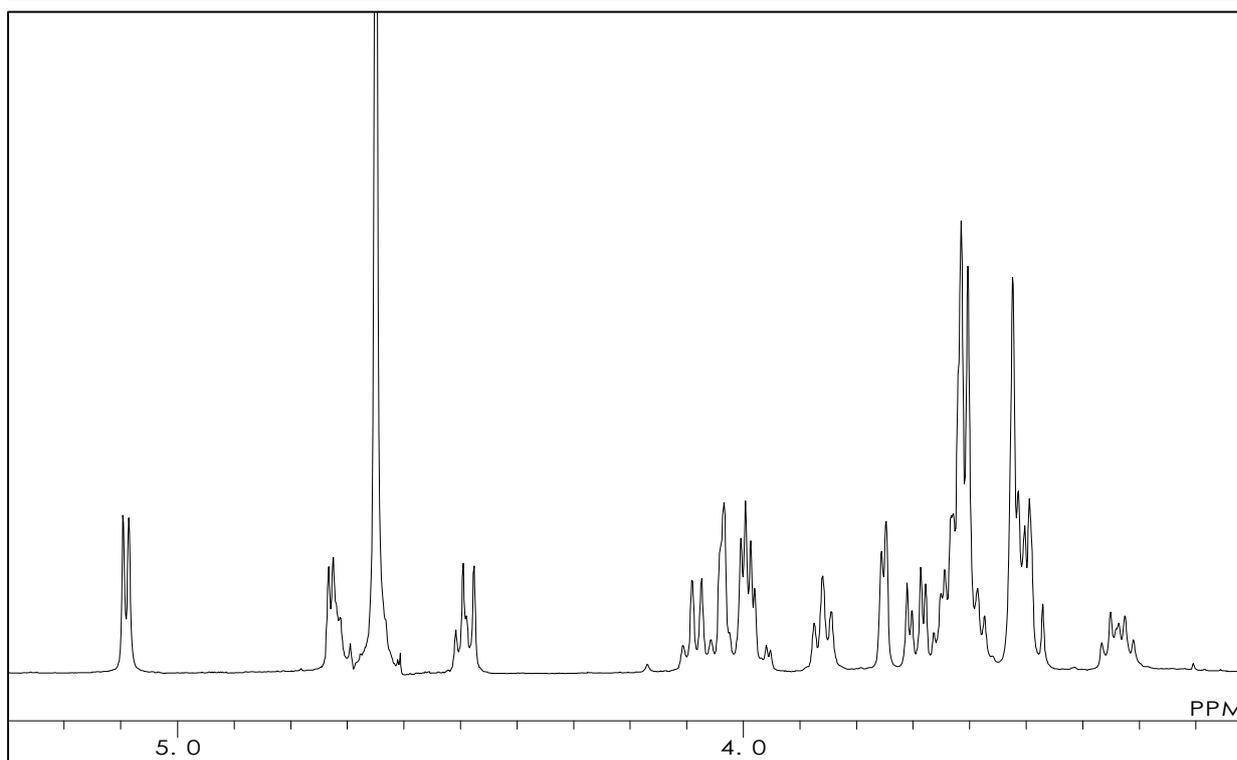
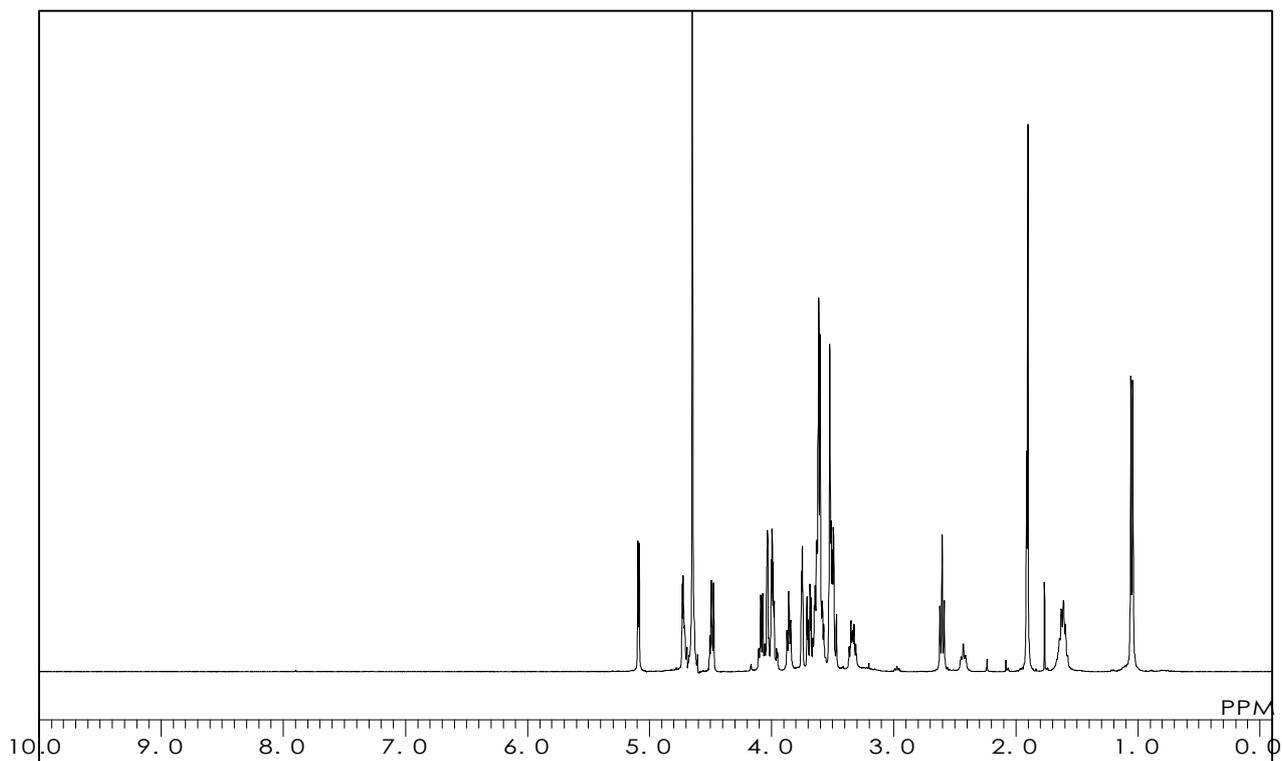
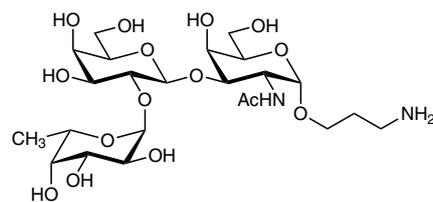
F1189

Fuc α (1-2)Gal β (1-3)GalNAc- α -propylamine

$C_{23}H_{42}N_2O_{15} = 586.59$ [1016164-81-0]

Solvent : D_2O

Measured Temperature : 24.2 $^{\circ}C$



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

F0894

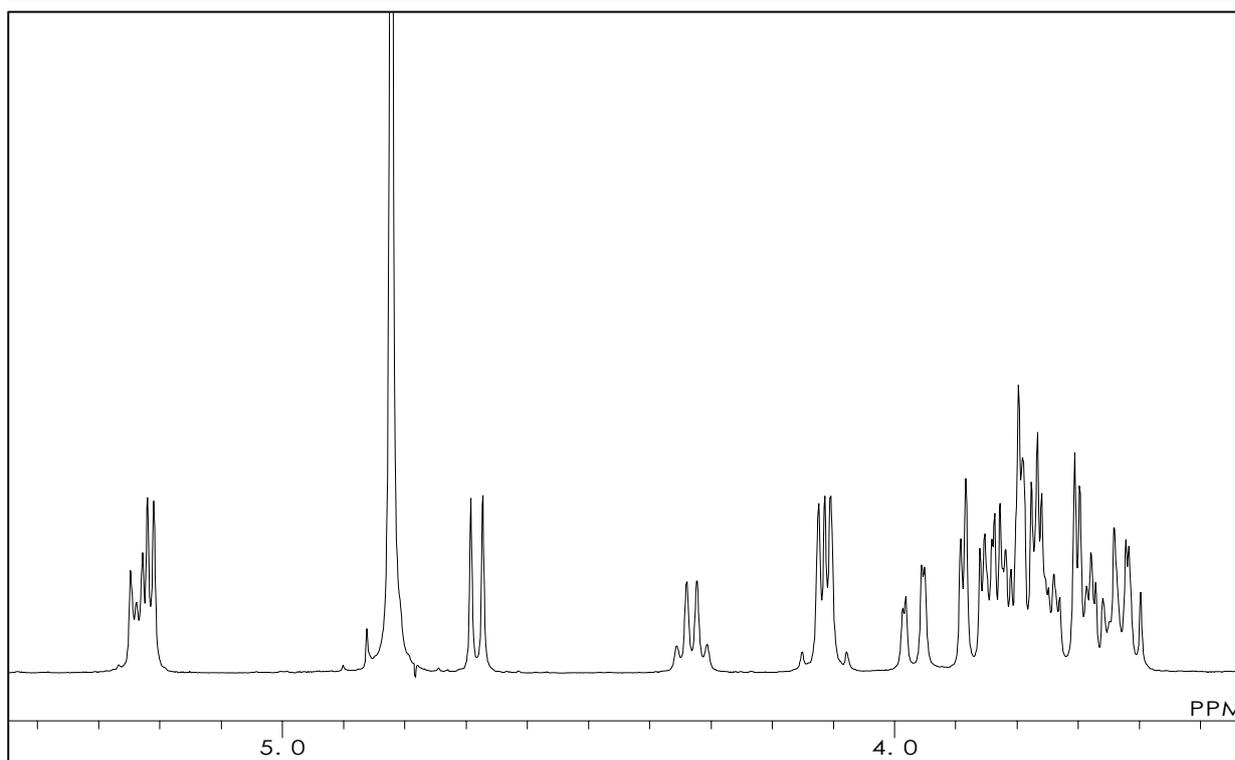
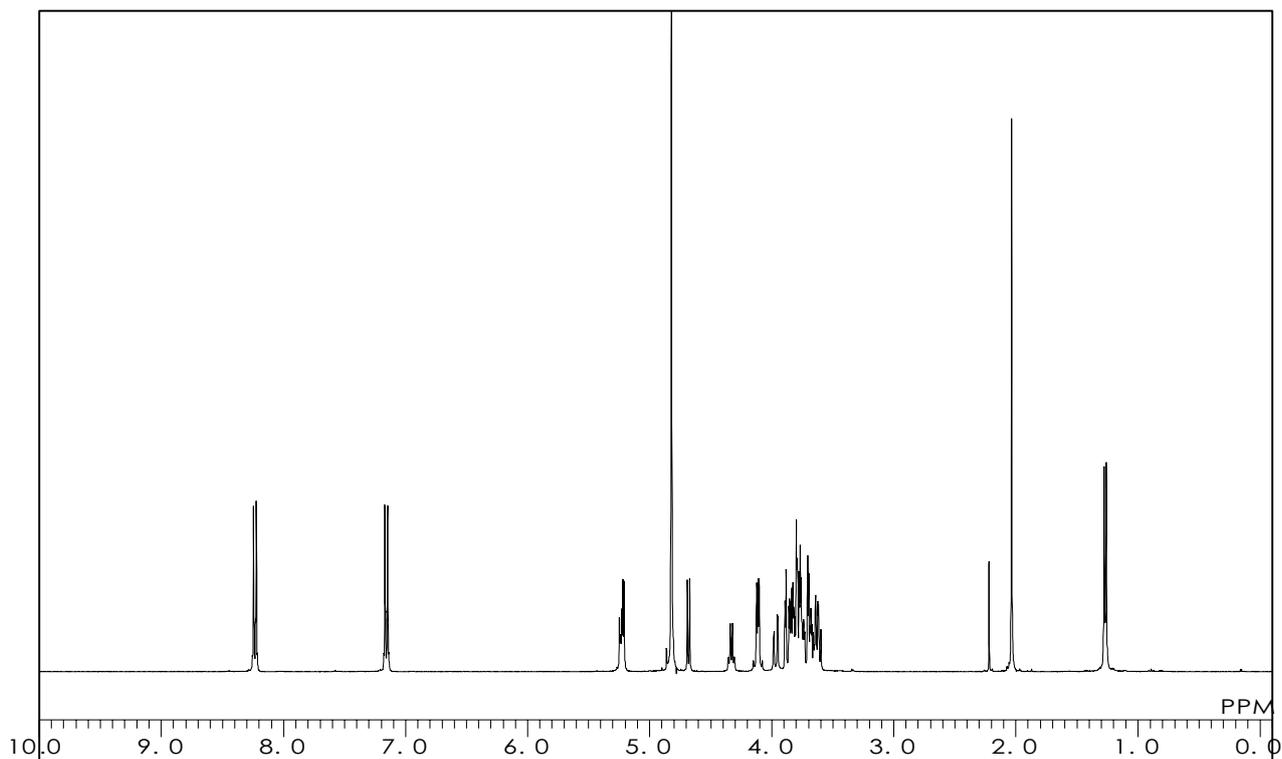
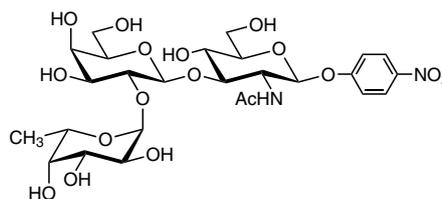
Fuc α (1-2)Gal β (1-3)GlcNAc- β -pNP (=H type 1 β -pNP Glycoside)

$C_{26}H_{38}N_2O_{17} = 650.59$ [93496-53-8]

Solvent : D_2O

Internal Standard : Acetone (δ 2.22)

Measured Temperature : 20.9 $^{\circ}C$



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0529

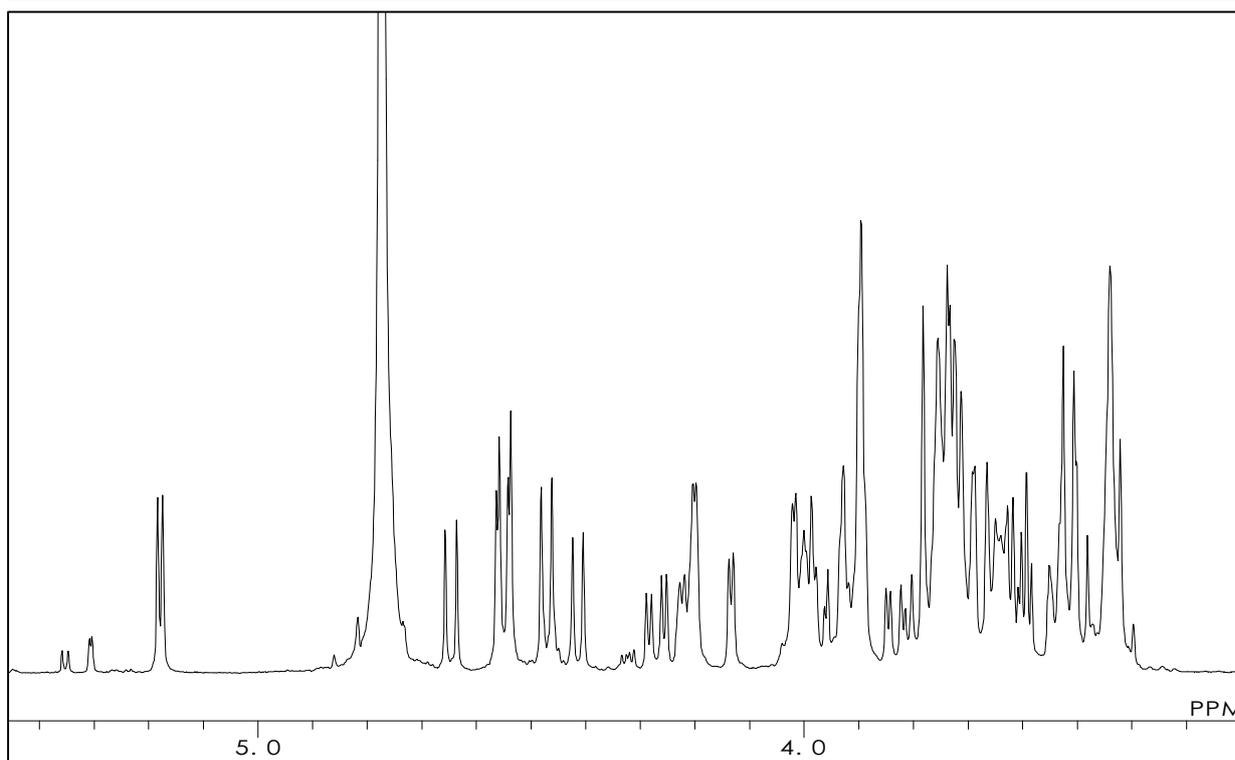
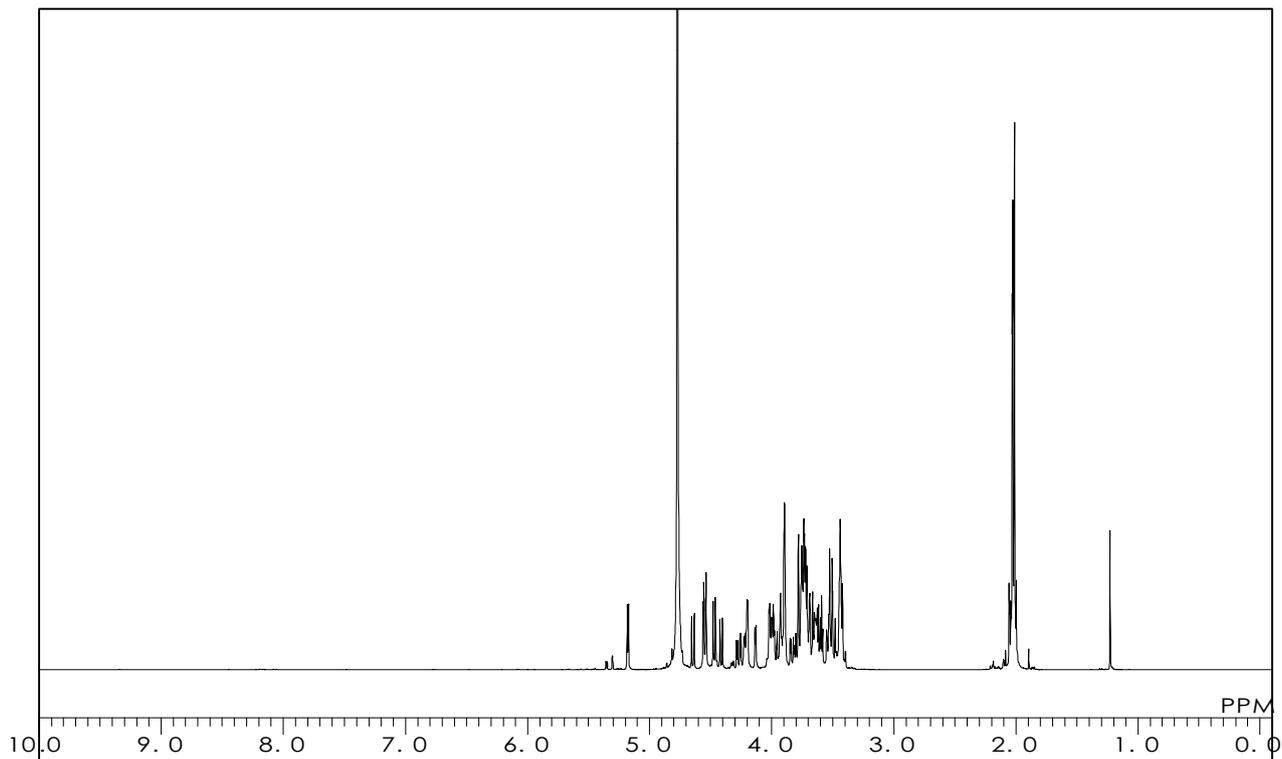
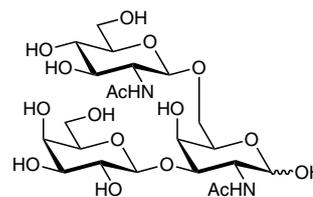
Gal β (1-3)[GlcNAc β (1-6)]GalNAc

$C_{22}H_{38}N_2O_{16} = 586.54$ [73499-58-8]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.7 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0343

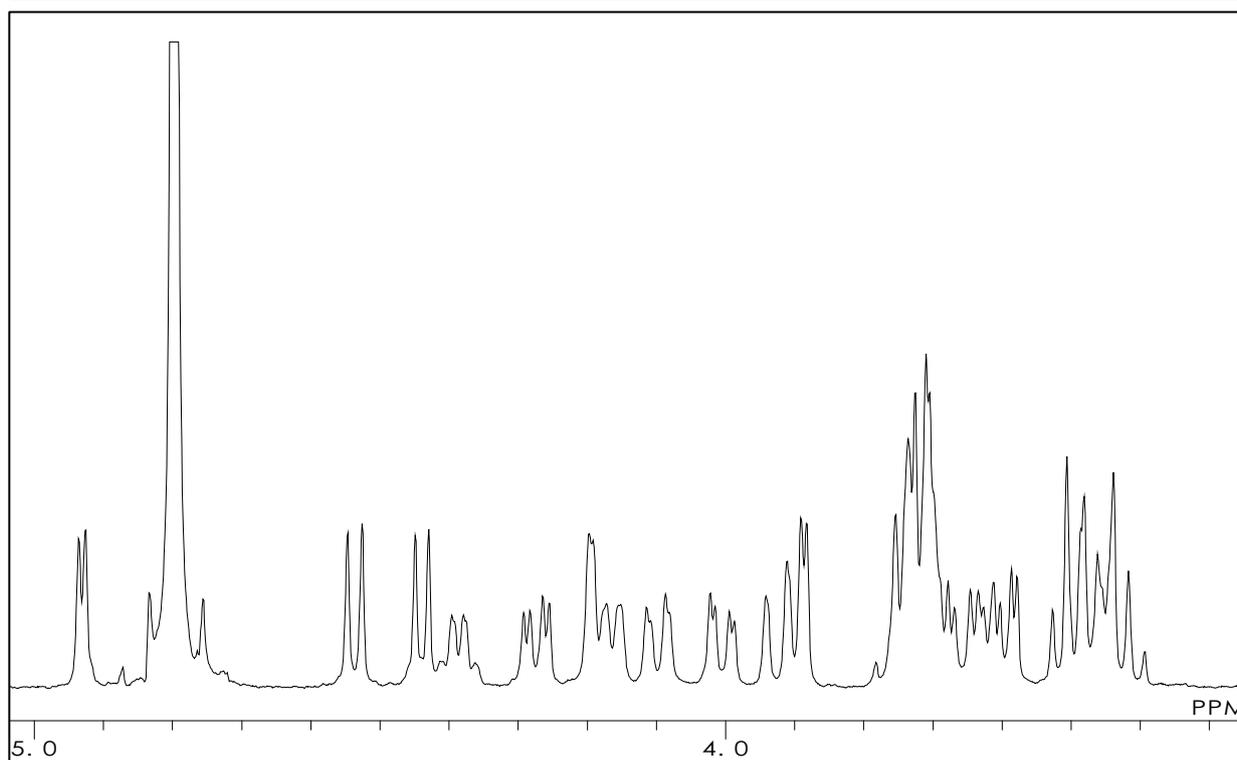
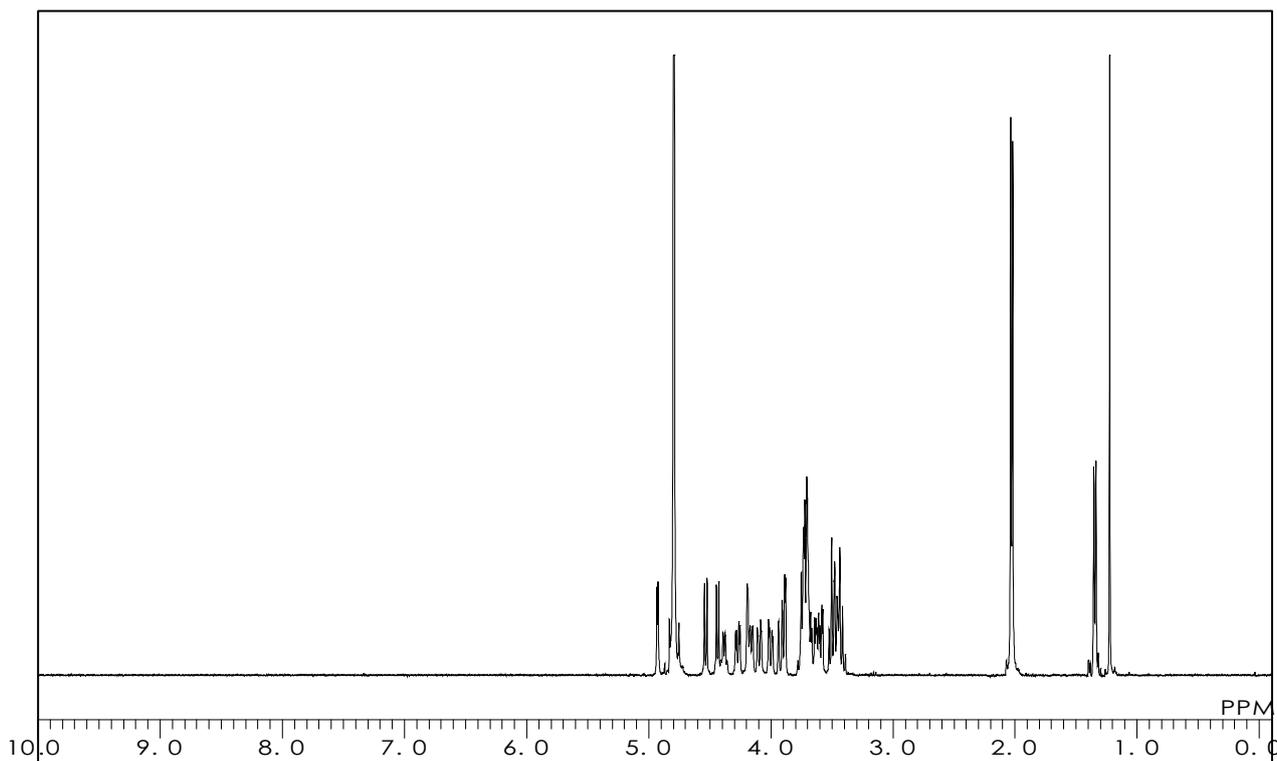
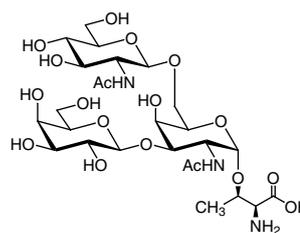
Gal β (1-3)[GlcNAc β (1-6)]GalNAc- α -Thr

C₂₆H₄₅N₃O₁₈ = 687.65 [186600-27-1]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0377

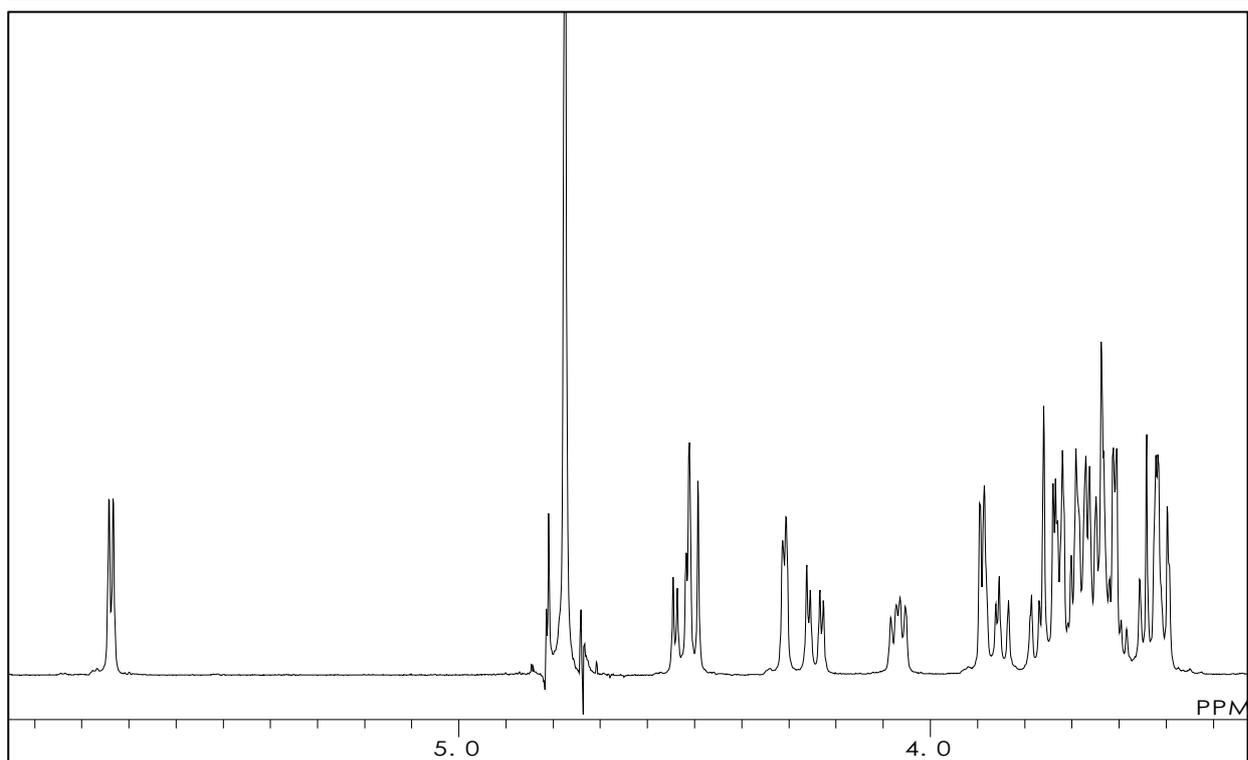
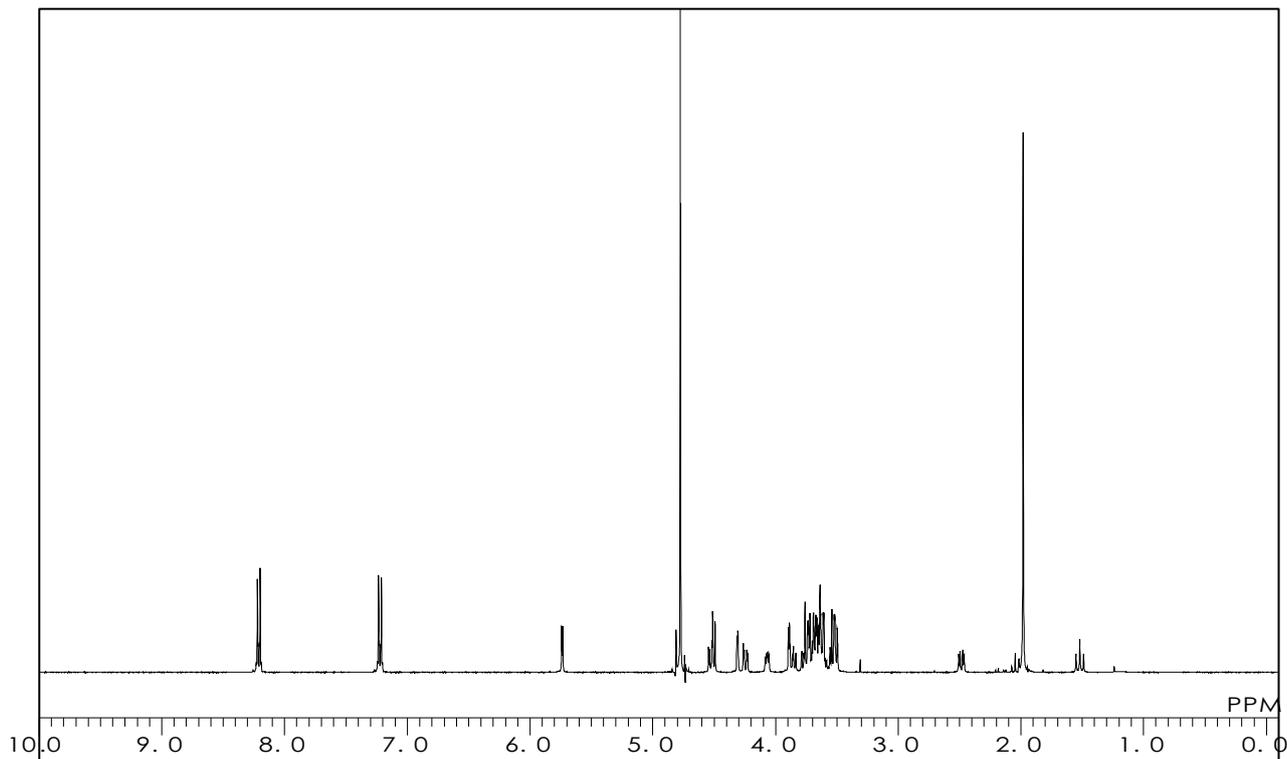
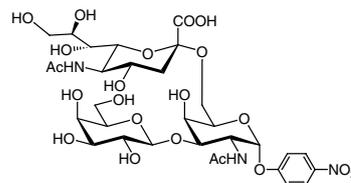
Gal β (1-3)[Neu5Ac α (2-6)]GalNAc- α -pNP

C₃₁H₄₅N₃O₂₁ = 795.70 [1316822-90-8]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.1 °C



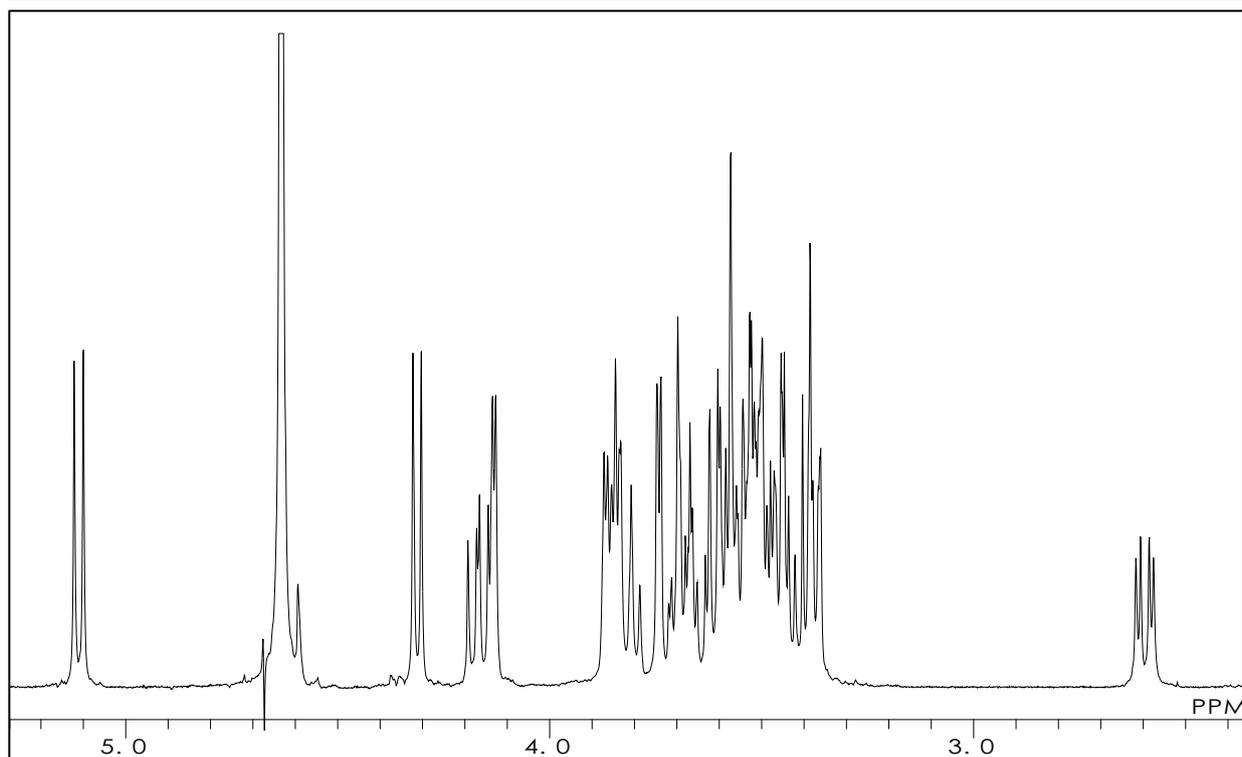
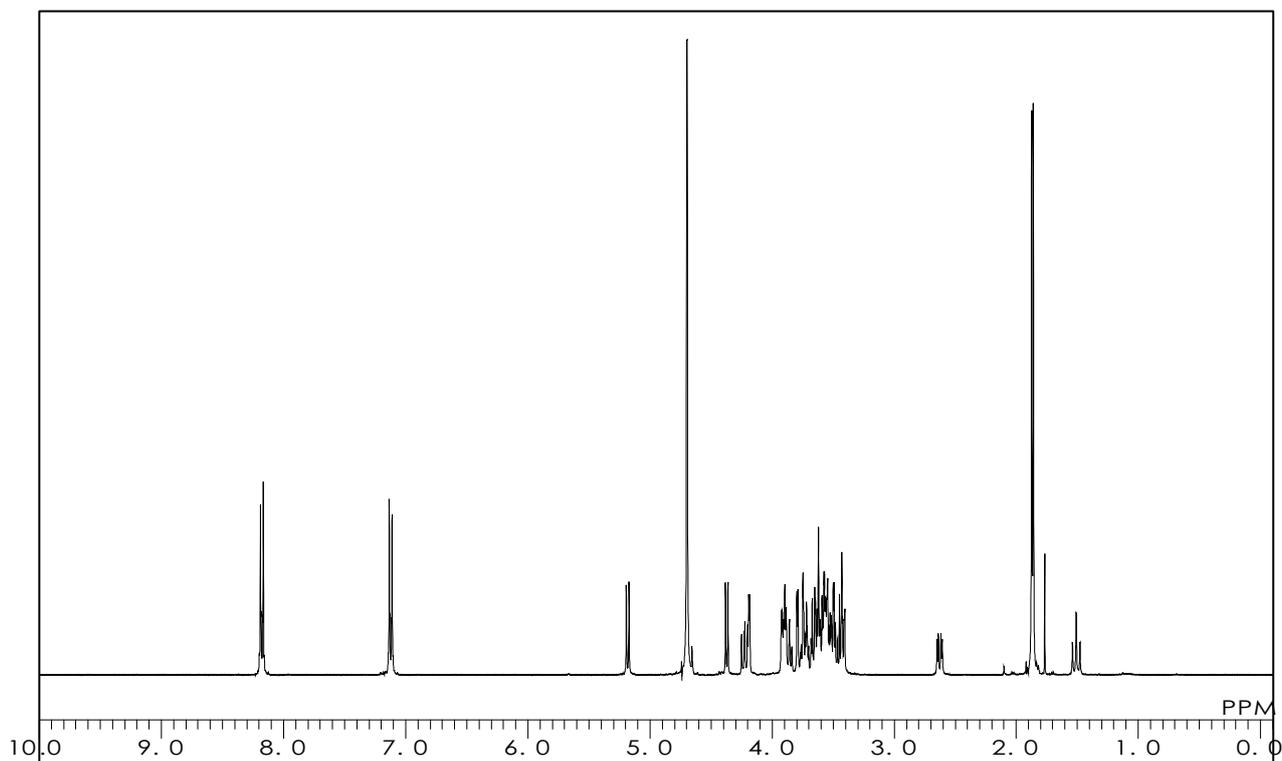
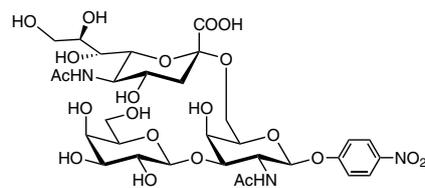
G0345

Gal β (1-3)[Neu5Ac α (2-6)]GalNAc- β -pNP

C₃₁H₄₅N₃O₂₁ = 795.70

Solvent : D₂O

Measured Temperature : 21.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

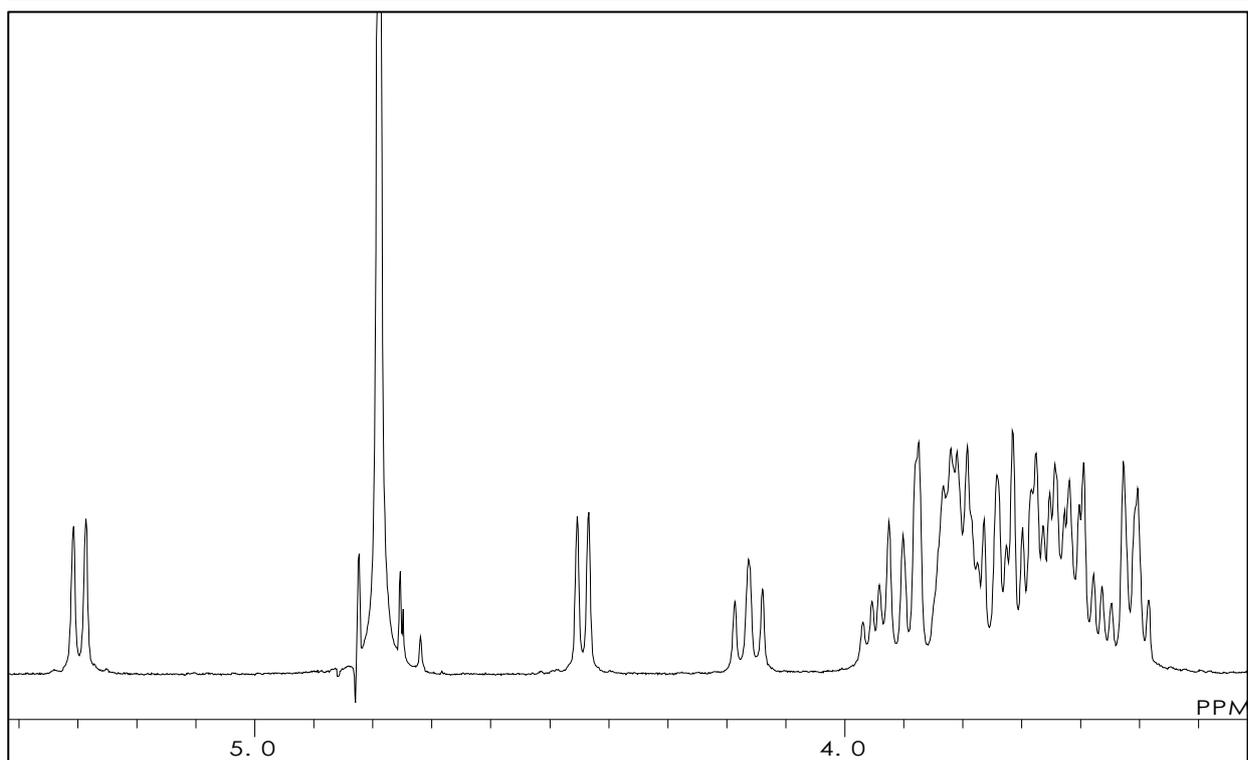
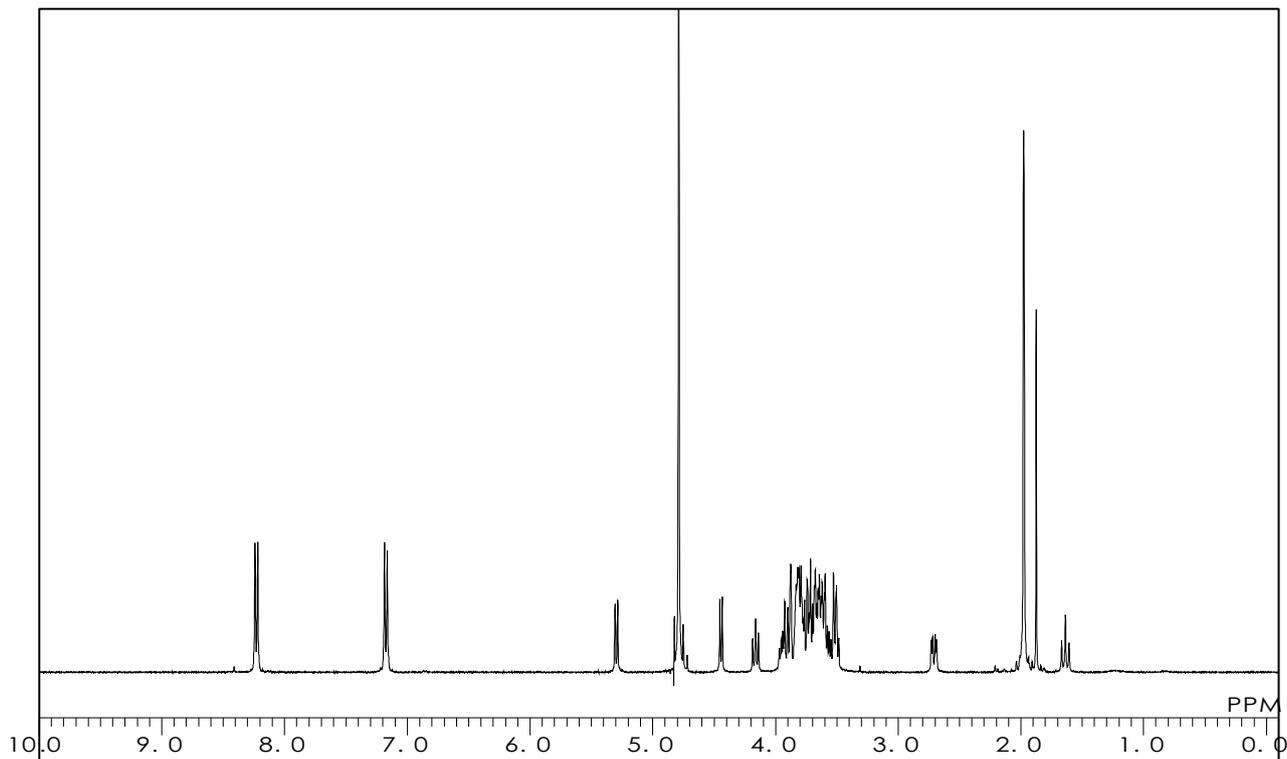
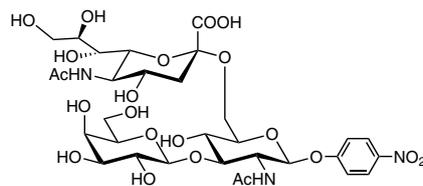
G0347

Gal β (1-3)[Neu5Ac α (2-6)]GlcNAc- β -pNP

C₃₁H₄₅N₃O₂₁ = 795.70 [754954-71-7]

Solvent : D₂O

Measured Temperature : 20.1 °C



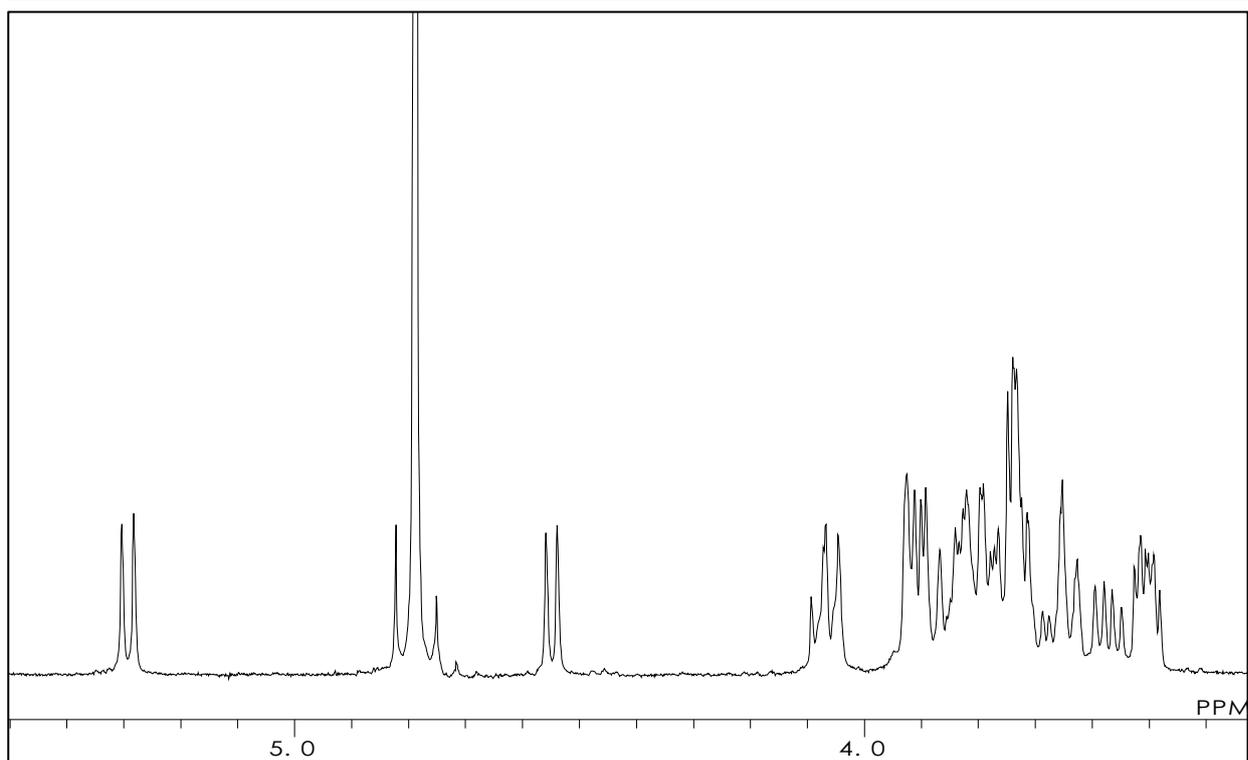
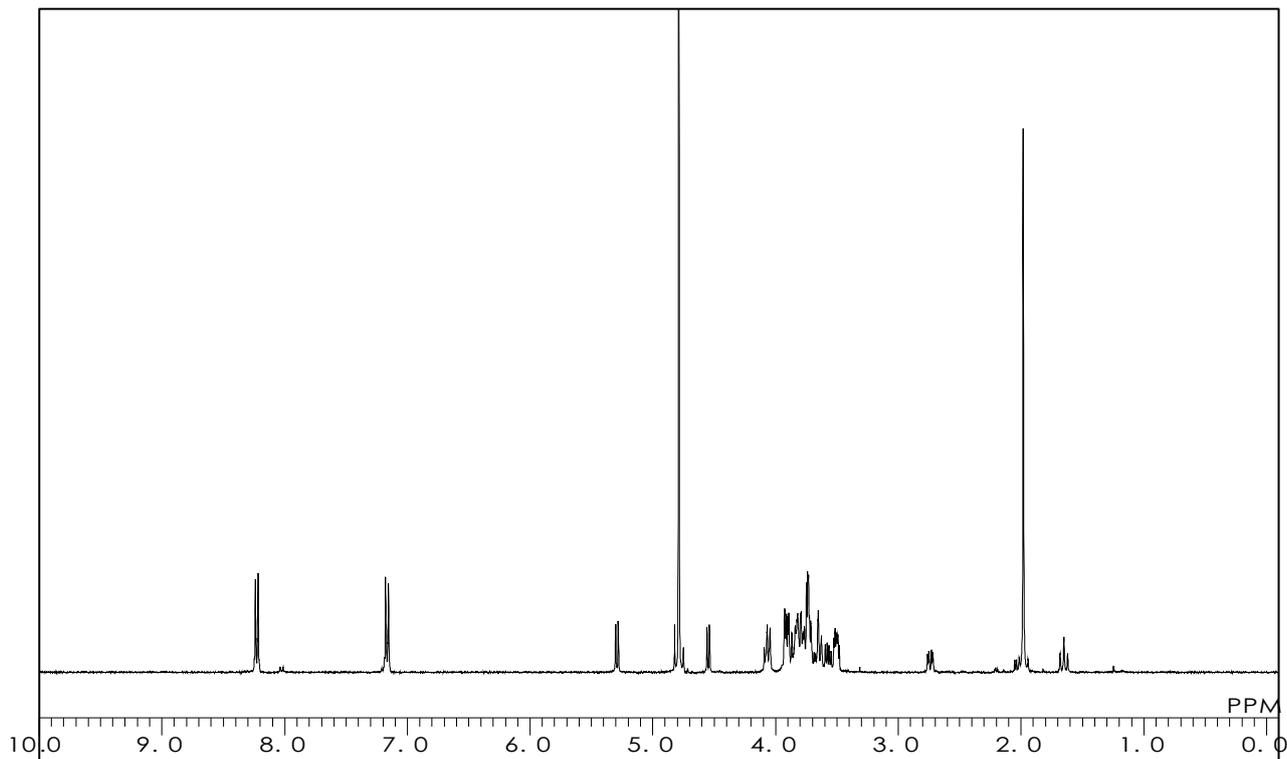
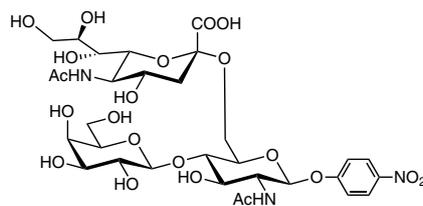
G0353

Gal β (1-4)[Neu5Ac α (2-6)]GlcNAc- β -pNP

C₃₁H₄₅N₃O₂₁ = 795.70

Solvent : D₂O

Measured Temperature : 20.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0422

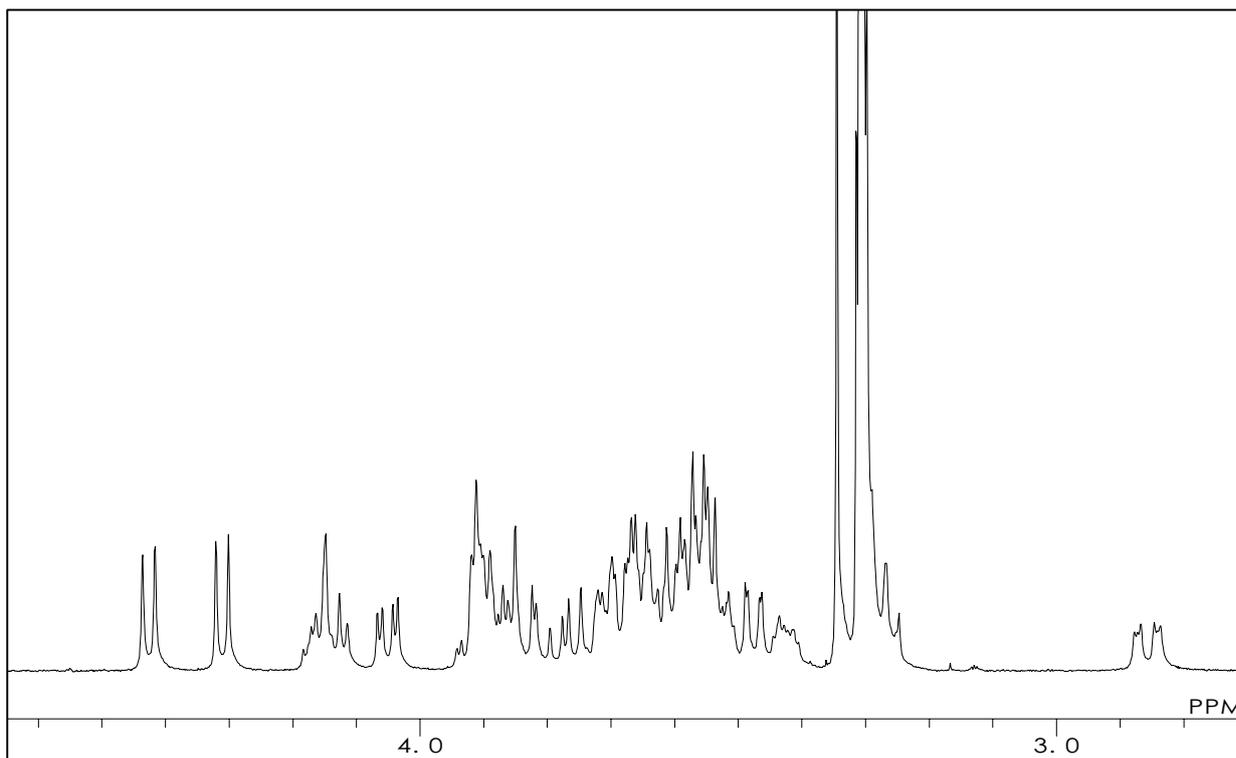
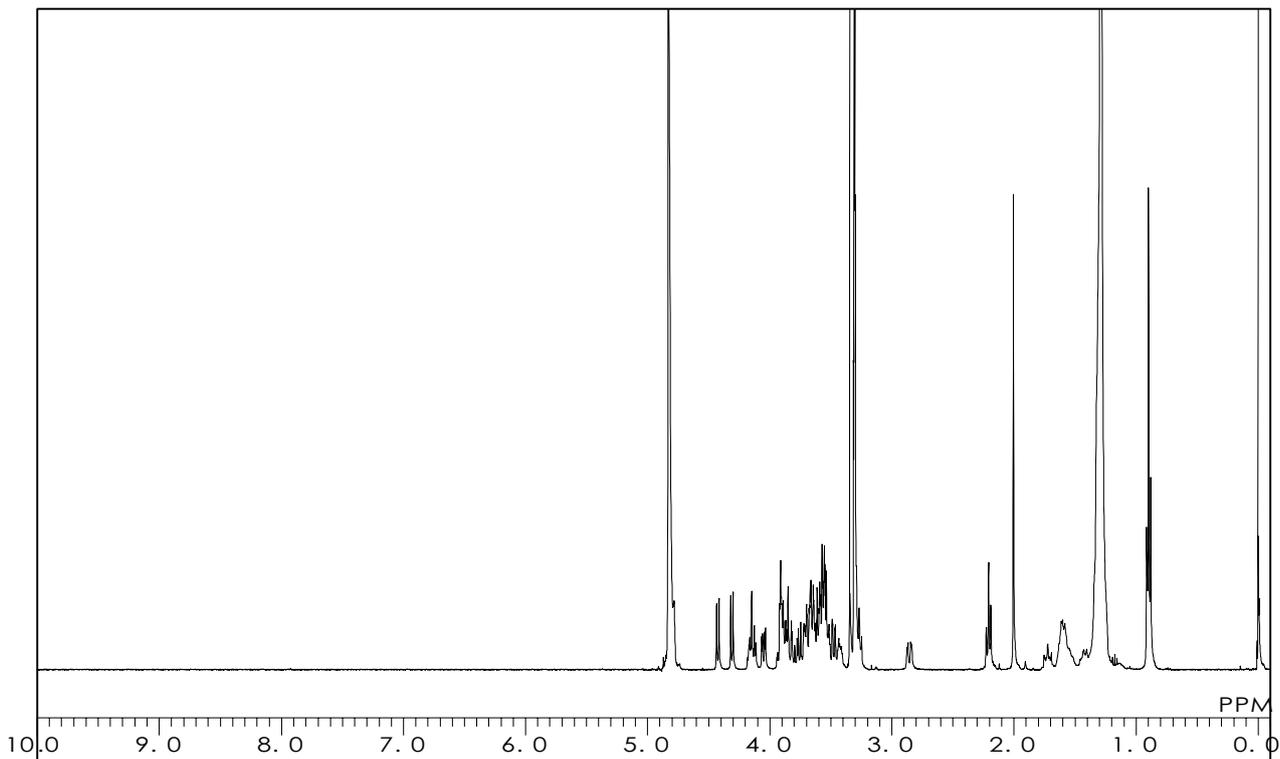
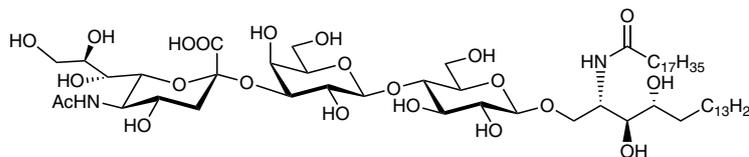
Ganglioside GM₃ (phyto-type)

C₅₉H₁₁₀N₂O₂₂ = 1199.52 [1046791-63-2]

Solvent : CD₃OD

Internal Standard : Si(CH₃)₄

Measured Temperature : 27.2 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0489

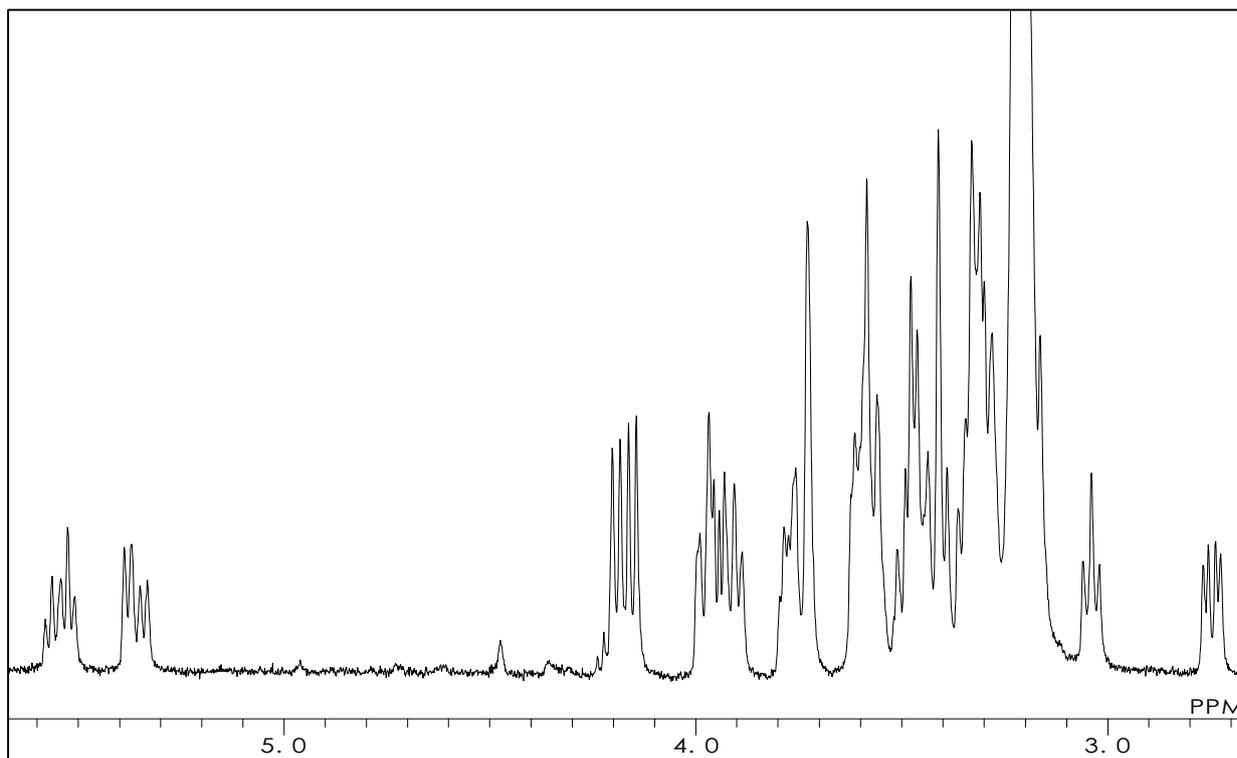
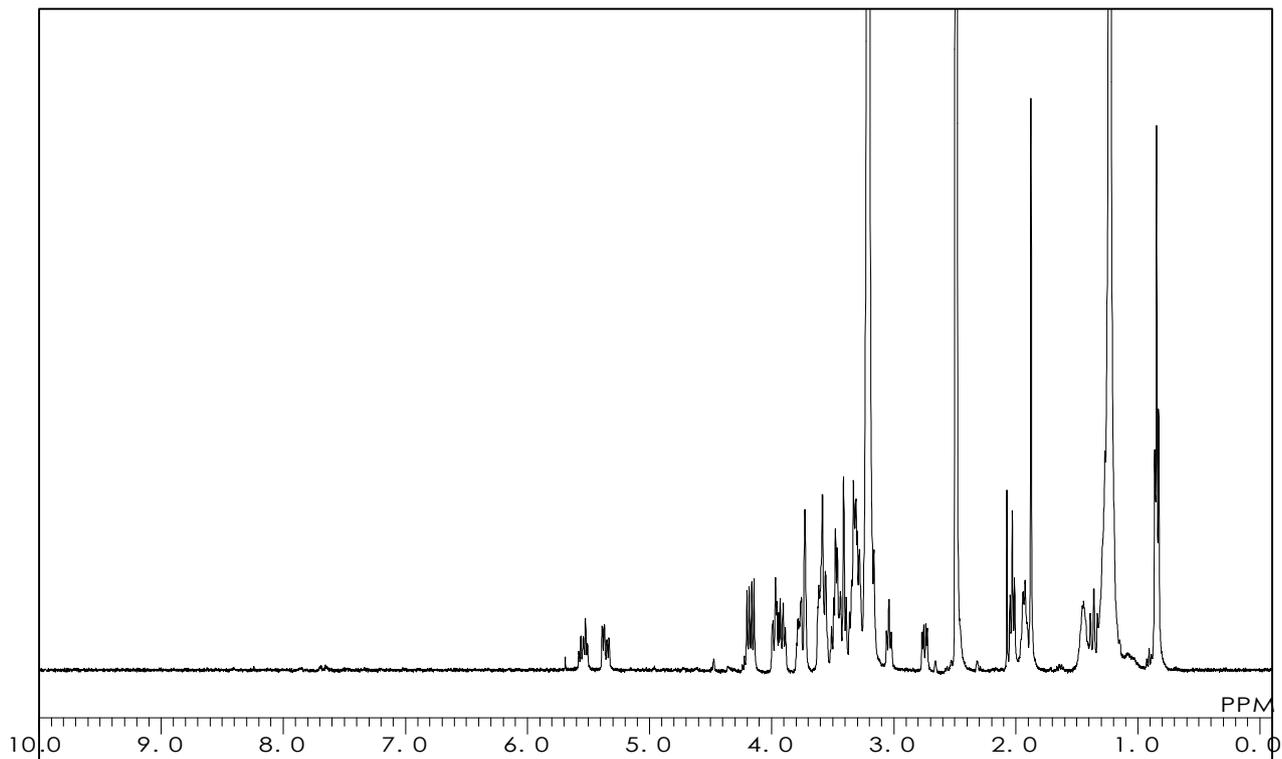
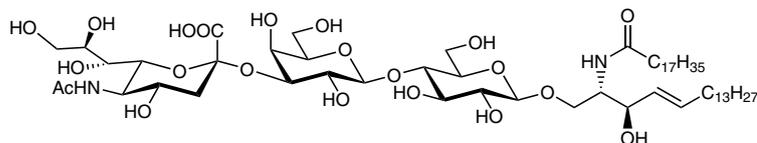
Ganglioside GM₃

C₅₉H₁₀₈N₂O₂₁ = 1181.51 [124579-05-1]

Solvent : DMSO-d₆

Internal Standard : DMSO (δ 2.49)

Measured Temperature : 60.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0419

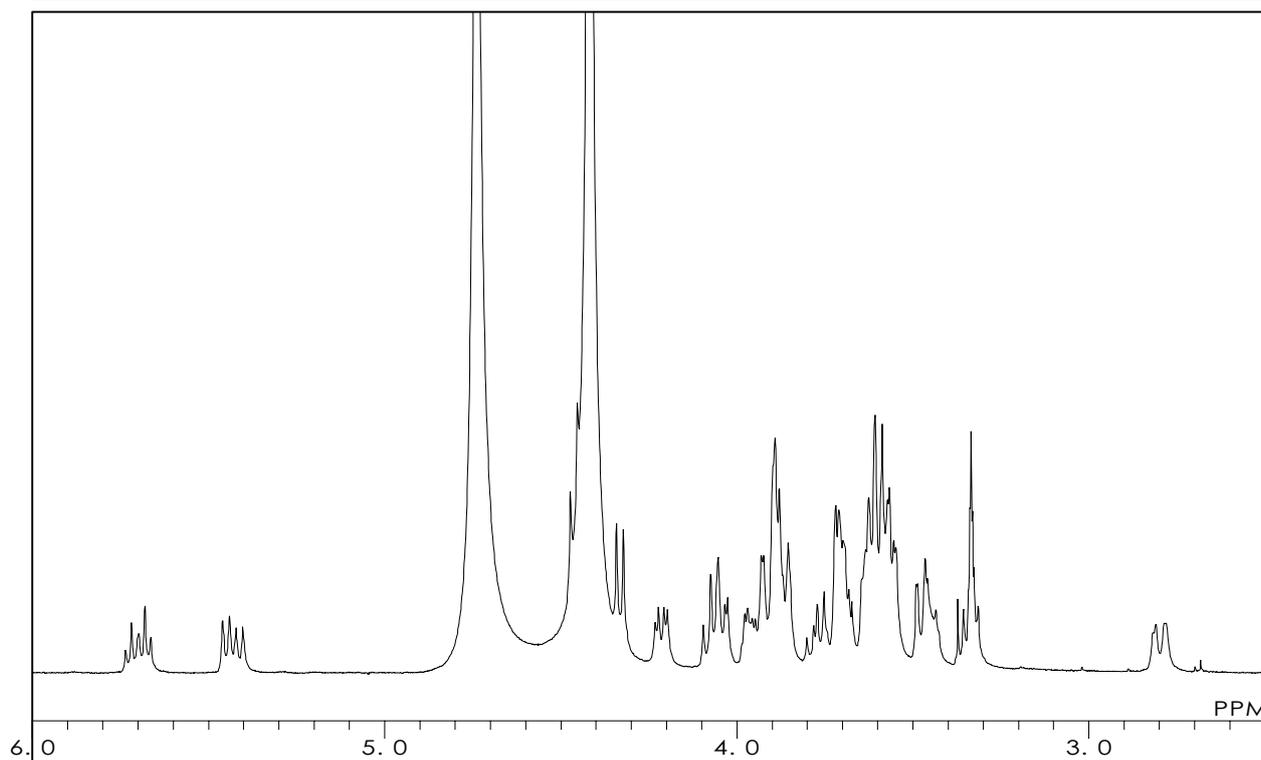
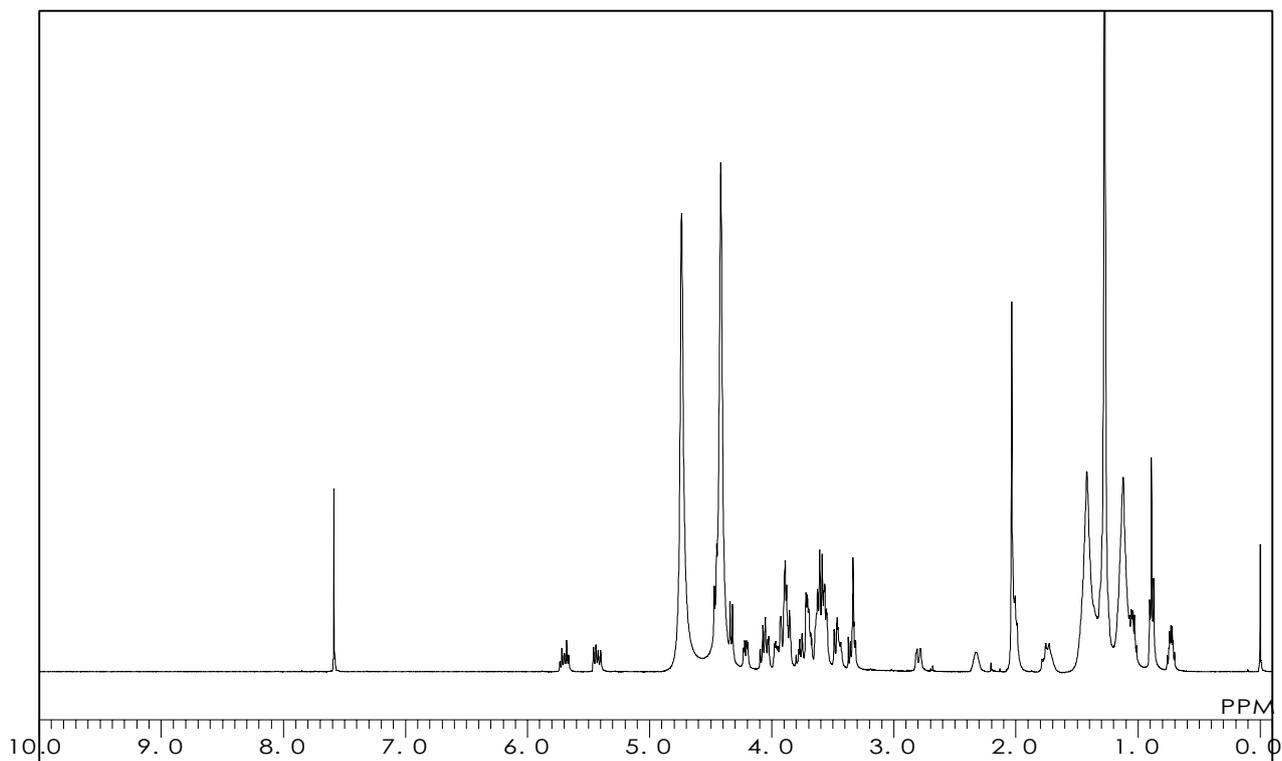
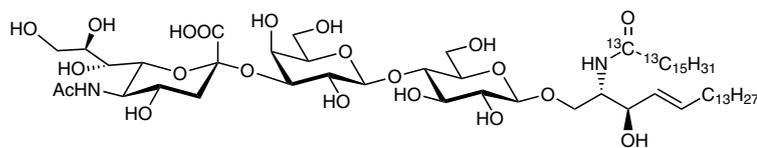
Ganglioside GM₃[d18:1, (Carbon-13)C16:0]

$^{13}\text{C}_{16}\text{C}_{41}\text{H}_{104}\text{N}_2\text{O}_{21} = 1169.33$

Solvent : $\text{CDCl}_3/\text{CD}_3\text{OD}/\text{D}_2\text{O} = 5/5/1$

Internal Standard : $\text{Si}(\text{CH}_3)_4$

Measured Temperature : 23.9 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0510

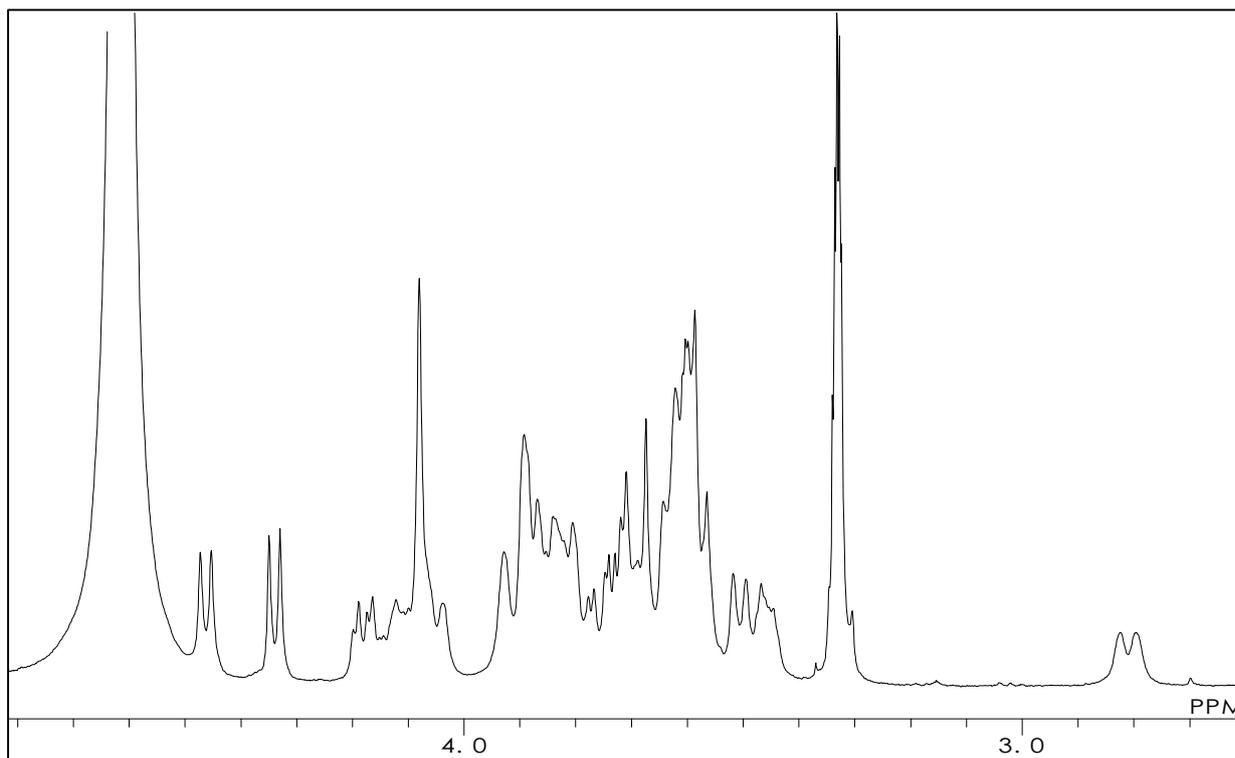
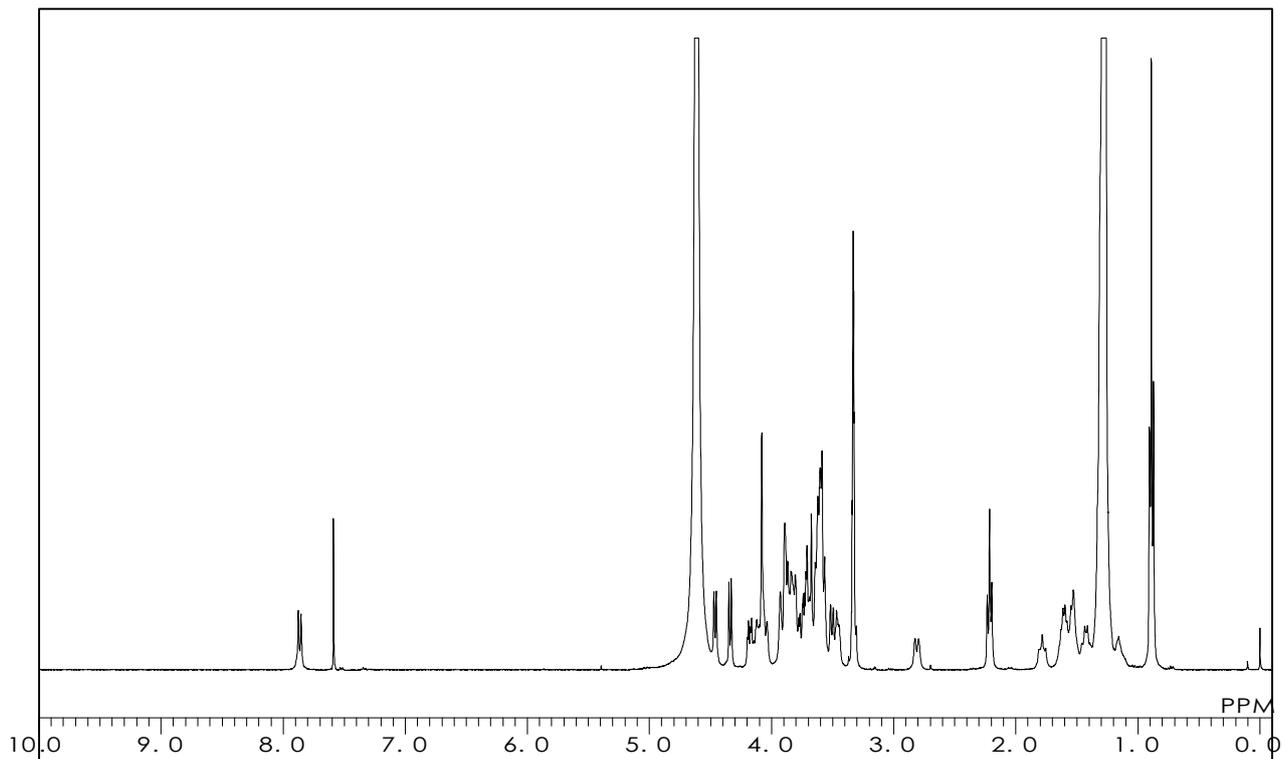
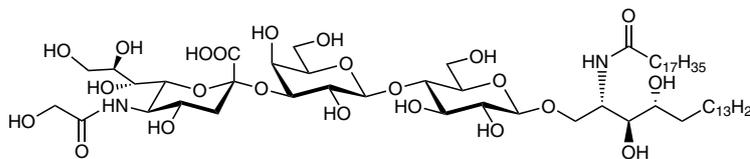
Ganglioside GM₃(Neu5Gc) (phyto-type)

C₅₉H₁₁₀N₂O₂₃ = 1215.52

Solvent : CD₃OD

Internal Standard : Si(CH₃)₄

Measured Temperature : 22.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

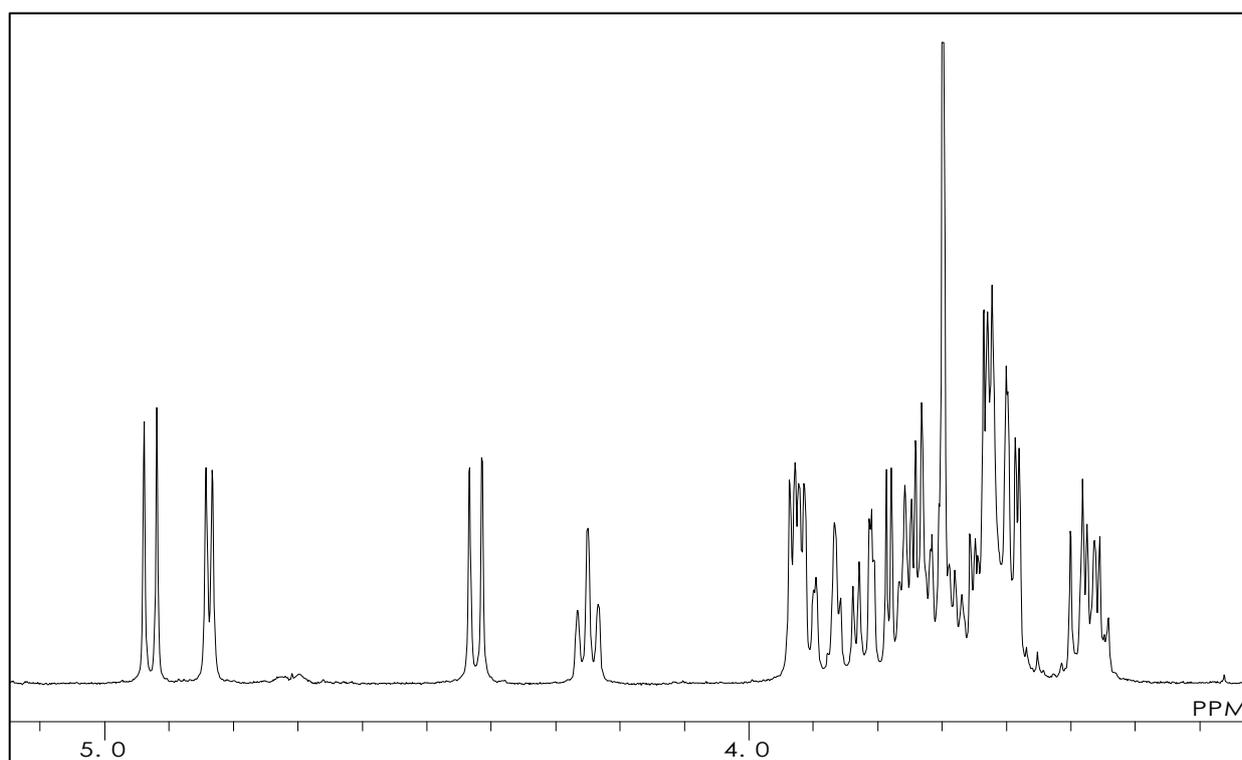
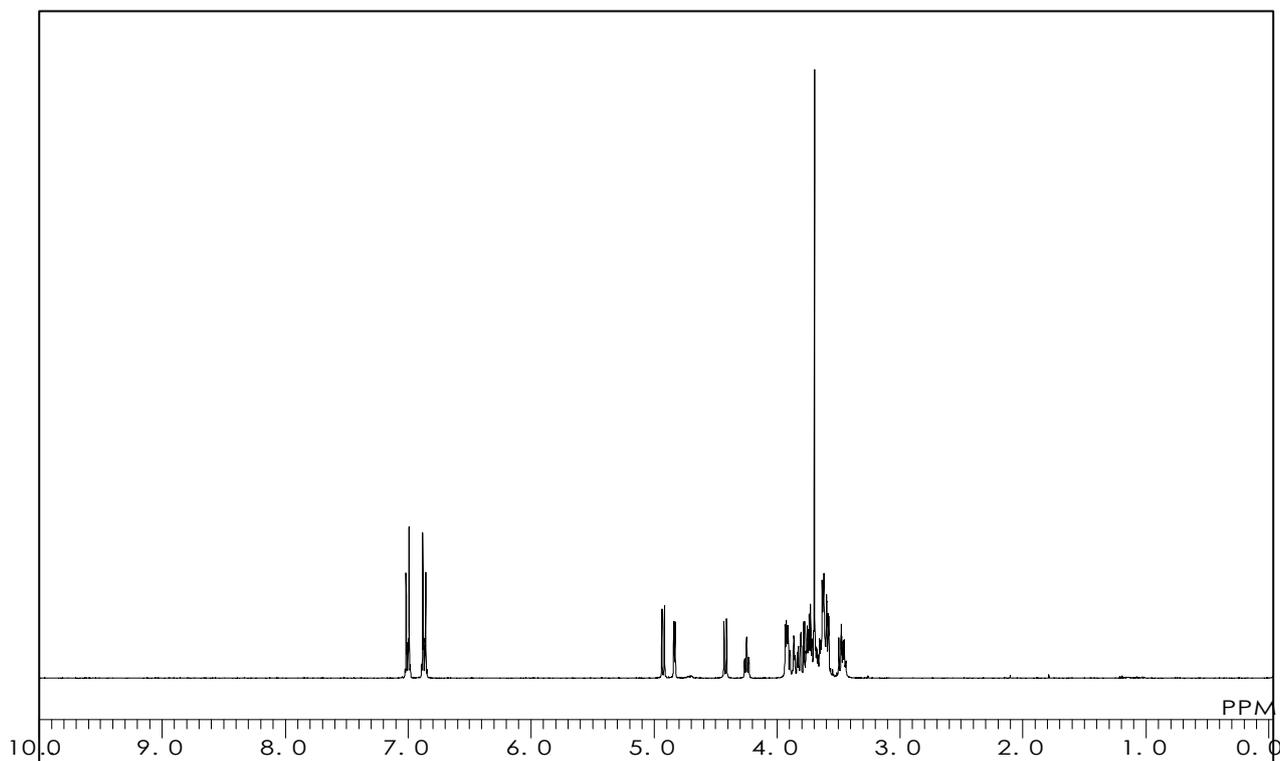
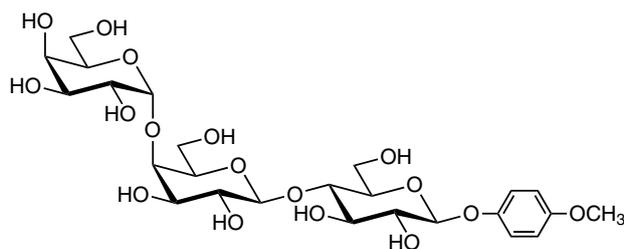
M1767

Gb₃-β-MP

C₂₅H₃₈O₁₇ = 610.56 [898826-64-7]

Solvent : D₂O

Measured Temperature : 20.6 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0465

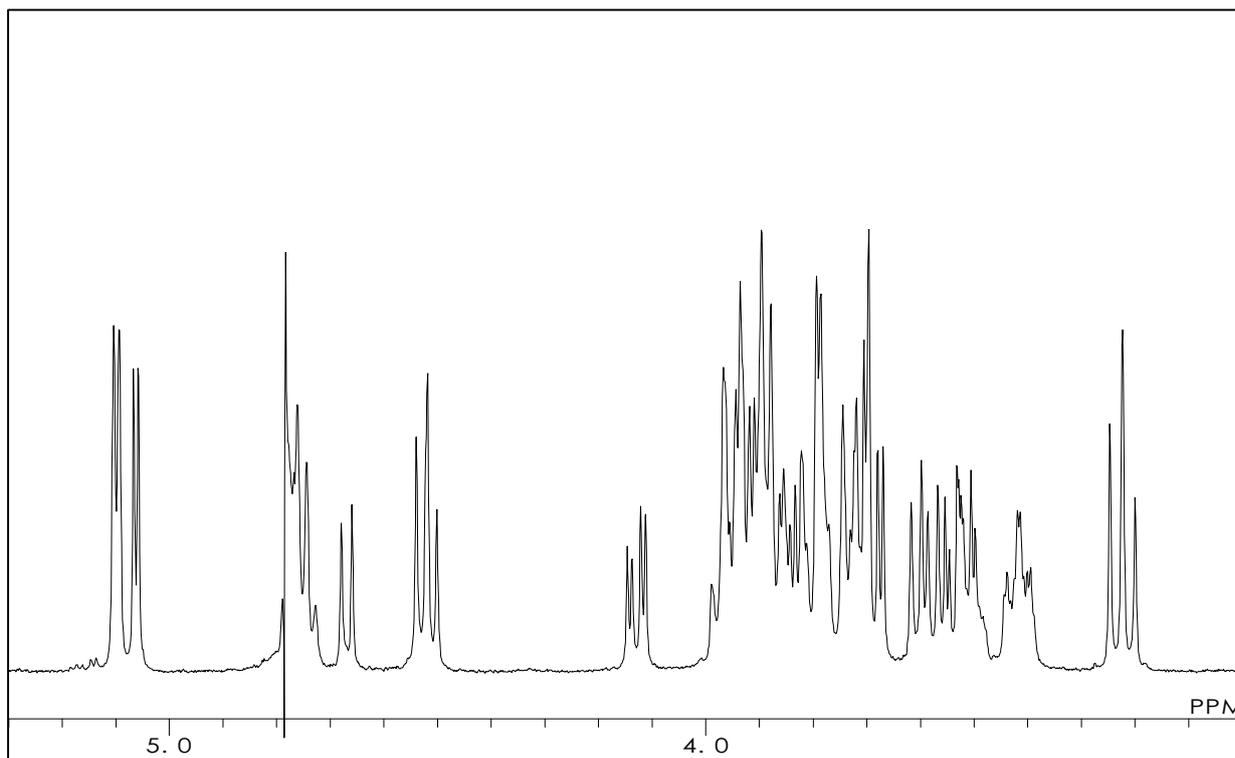
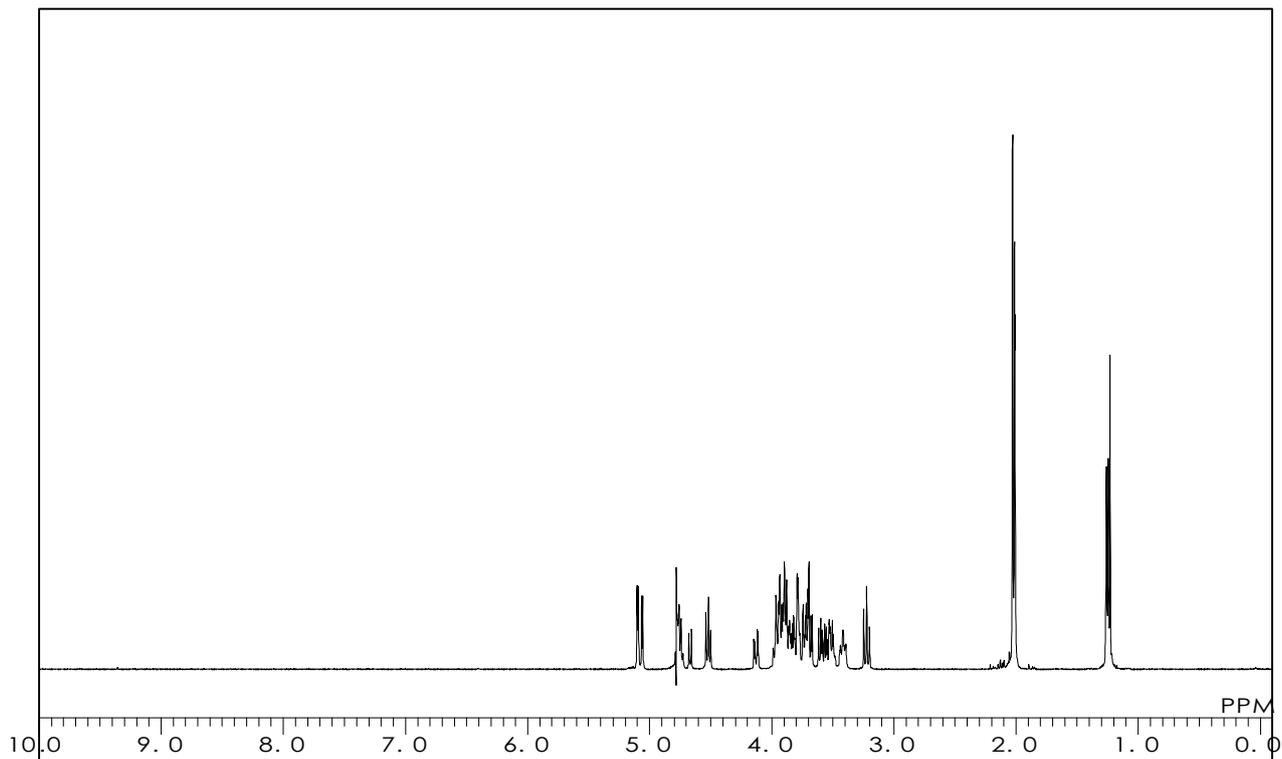
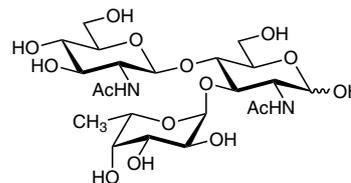
GlcNAc β (1-4)[Fuc α (1-3)]GlcNAc

$C_{22}H_{38}N_2O_{15} = 570.55$ [77735-22-9]

Solvent : D_2O

Internal Standard : t-BuOH (δ 1.23)

Measured Temperature : 22.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0423

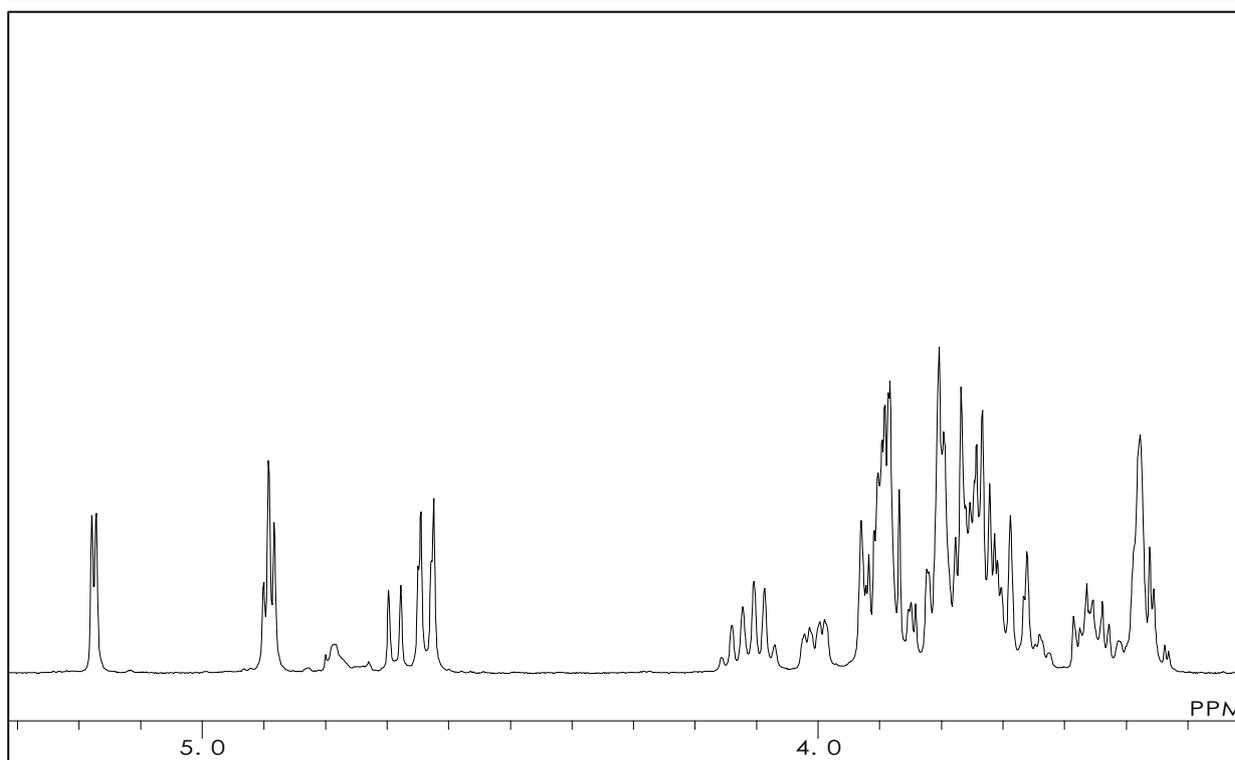
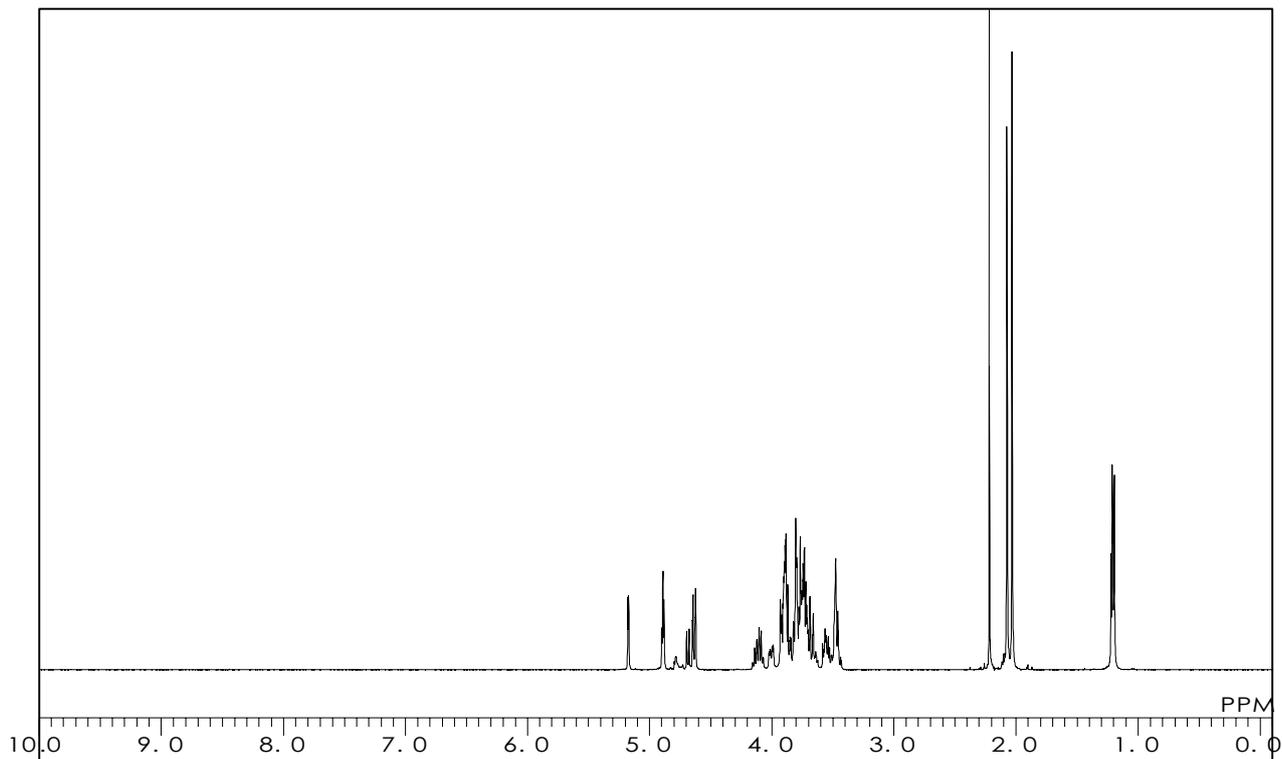
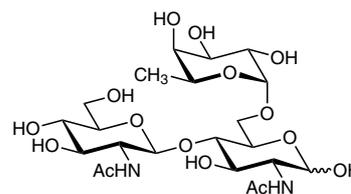
GlcNAc β (1-4)[Fuc α (1-6)]GlcNAc

$C_{22}H_{38}N_2O_{15} = 570.55$ [108964-40-5]

Solvent : D_2O

Internal Standard : Acetone (δ 2.22)

Measured Temperature : 22.6 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

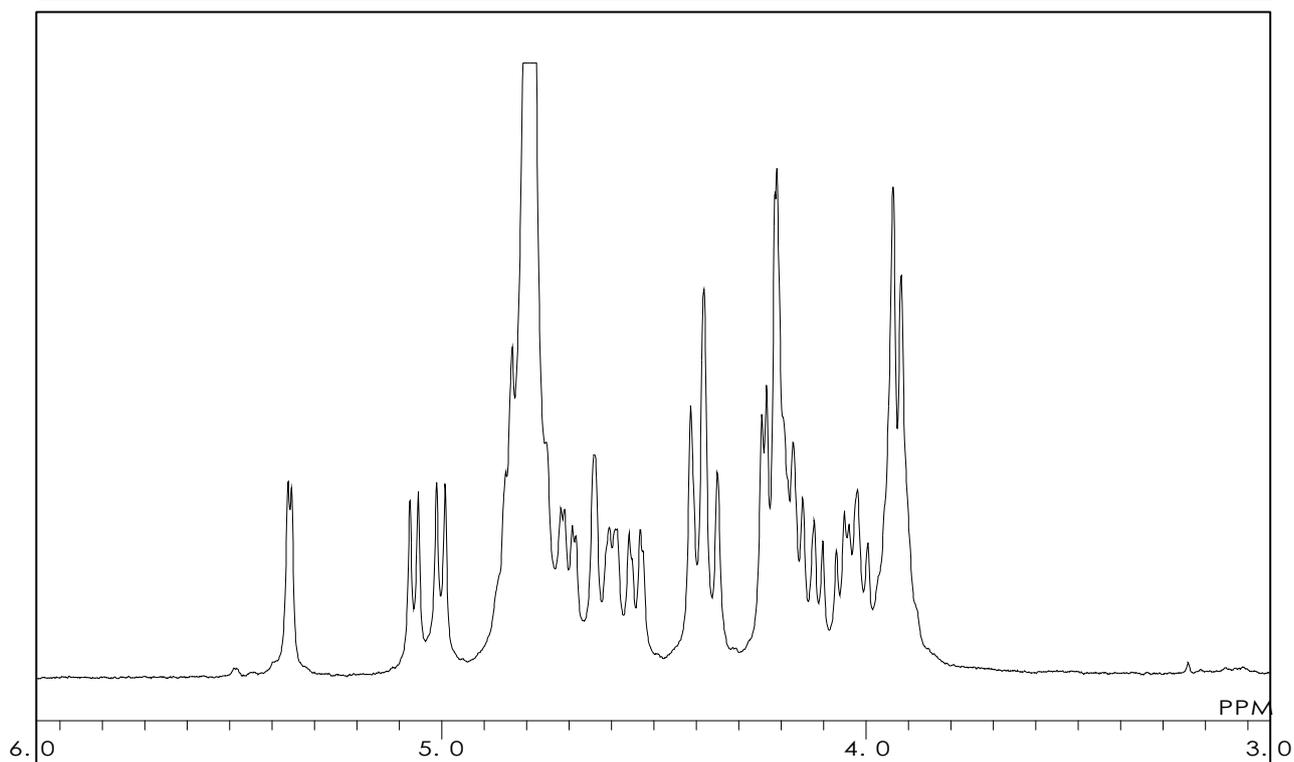
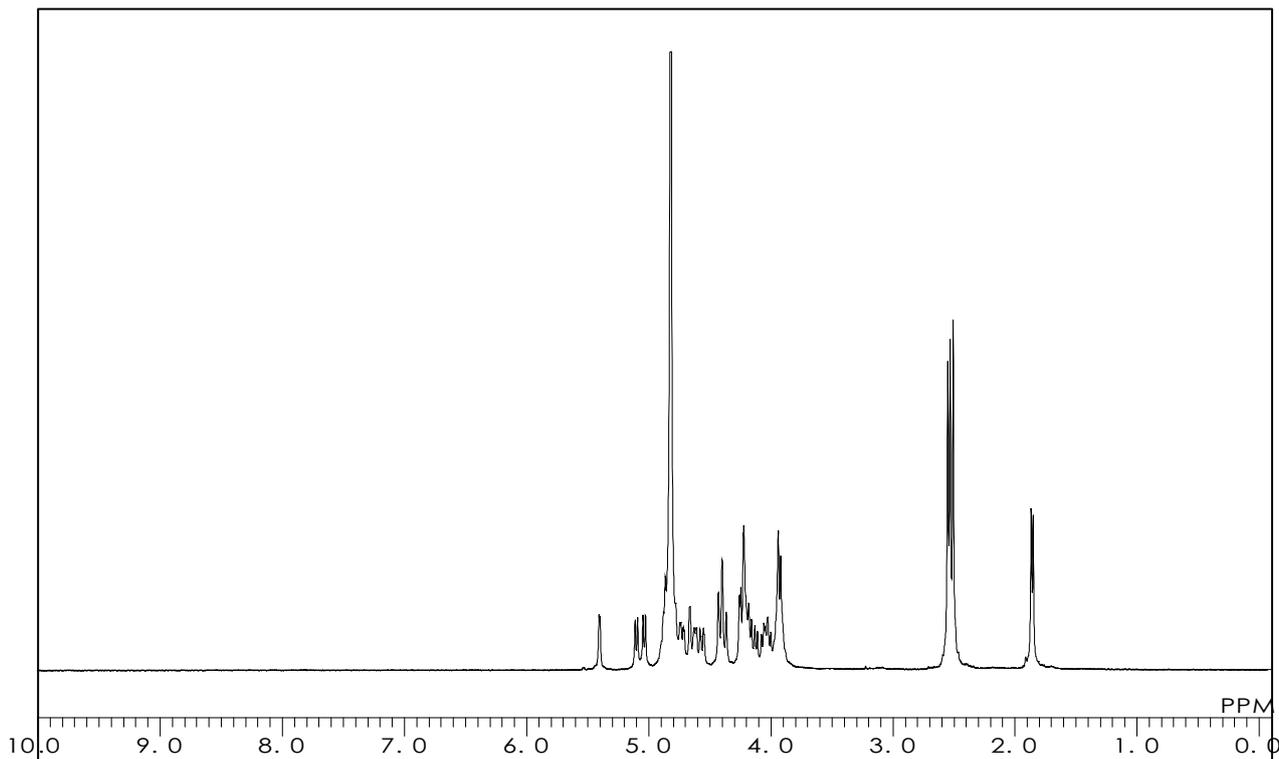
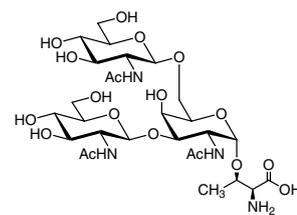
G0342

GlcNAc β (1-3)[GlcNAc β (1-6)]GalNAc- α -Thr

C₂₈H₄₈N₄O₁₈ = 728.70 [1304646-03-4]

Solvent : D₂O

Measured Temperature : 70.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

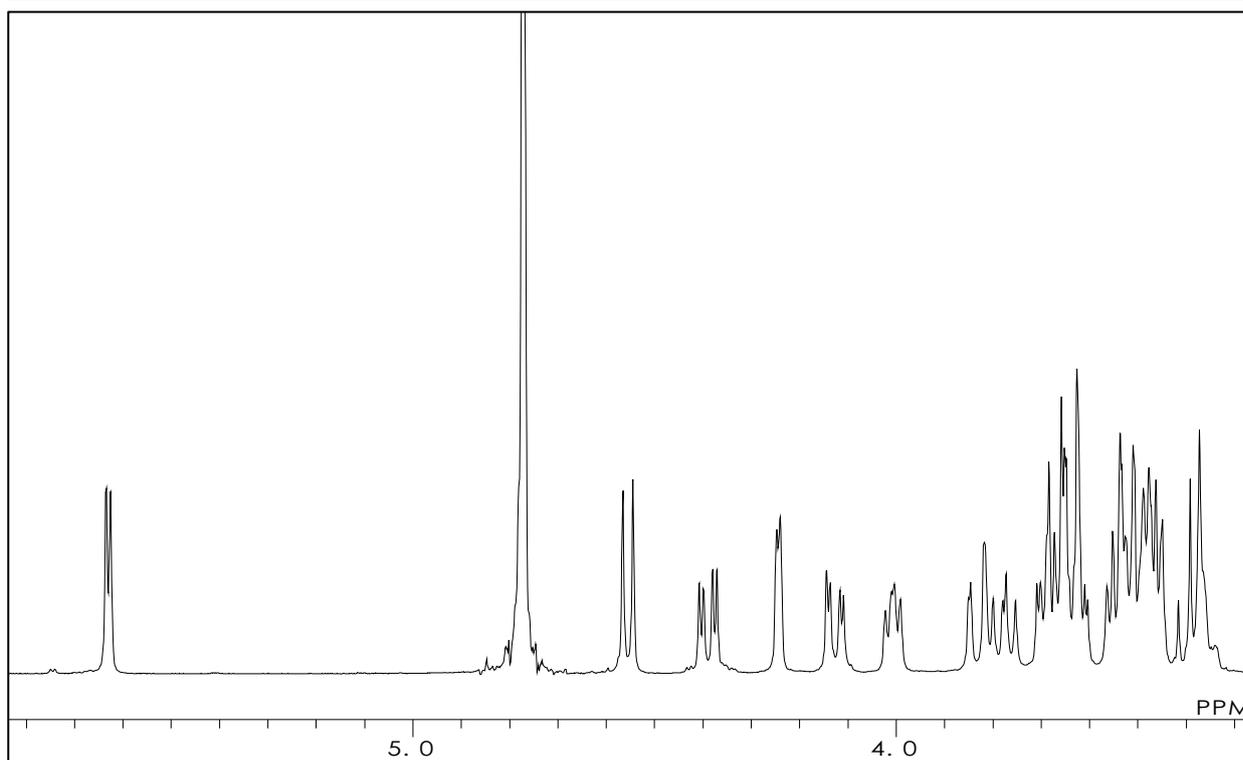
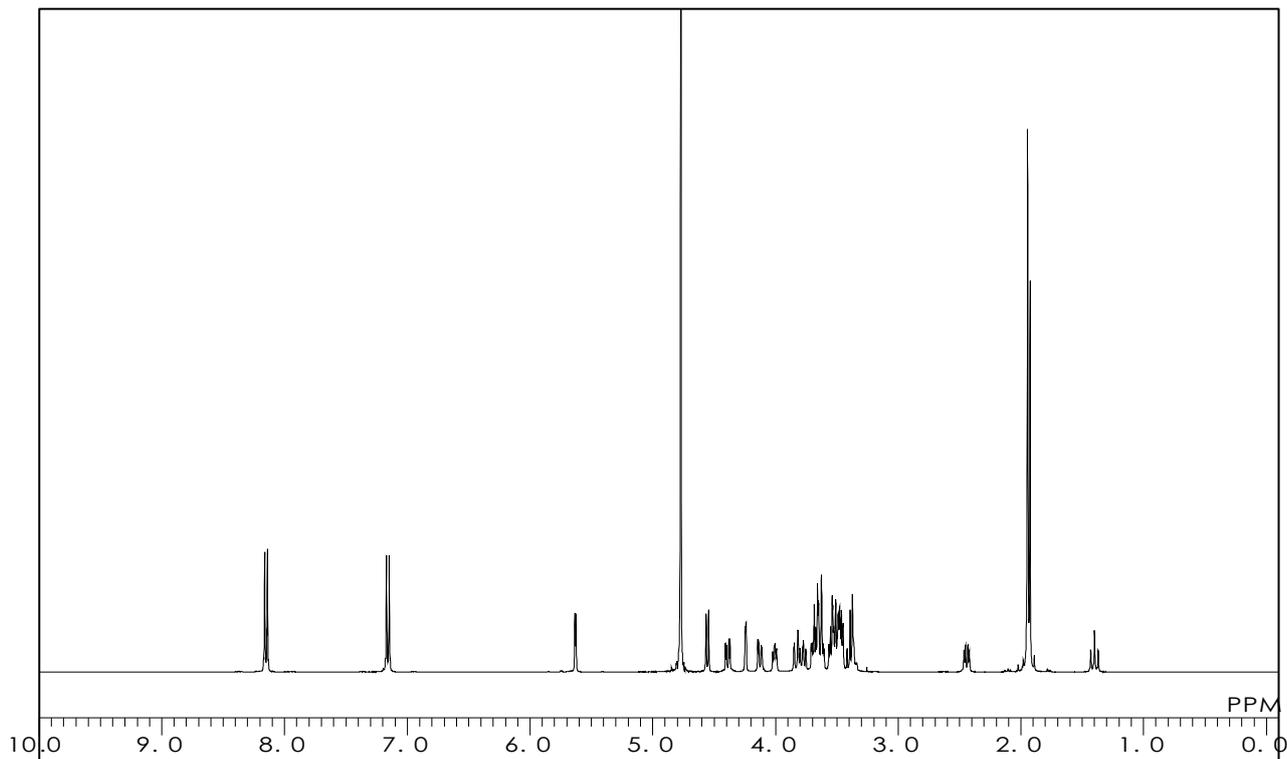
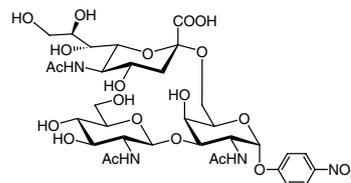
G0378

GlcNAc β (1-3)[Neu5Ac α (2-6)]GalNAc- α -pNP

$C_{33}H_{48}N_4O_{21} = 836.75$

Solvent : D_2O

Measured Temperature : 16.8 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

N0949

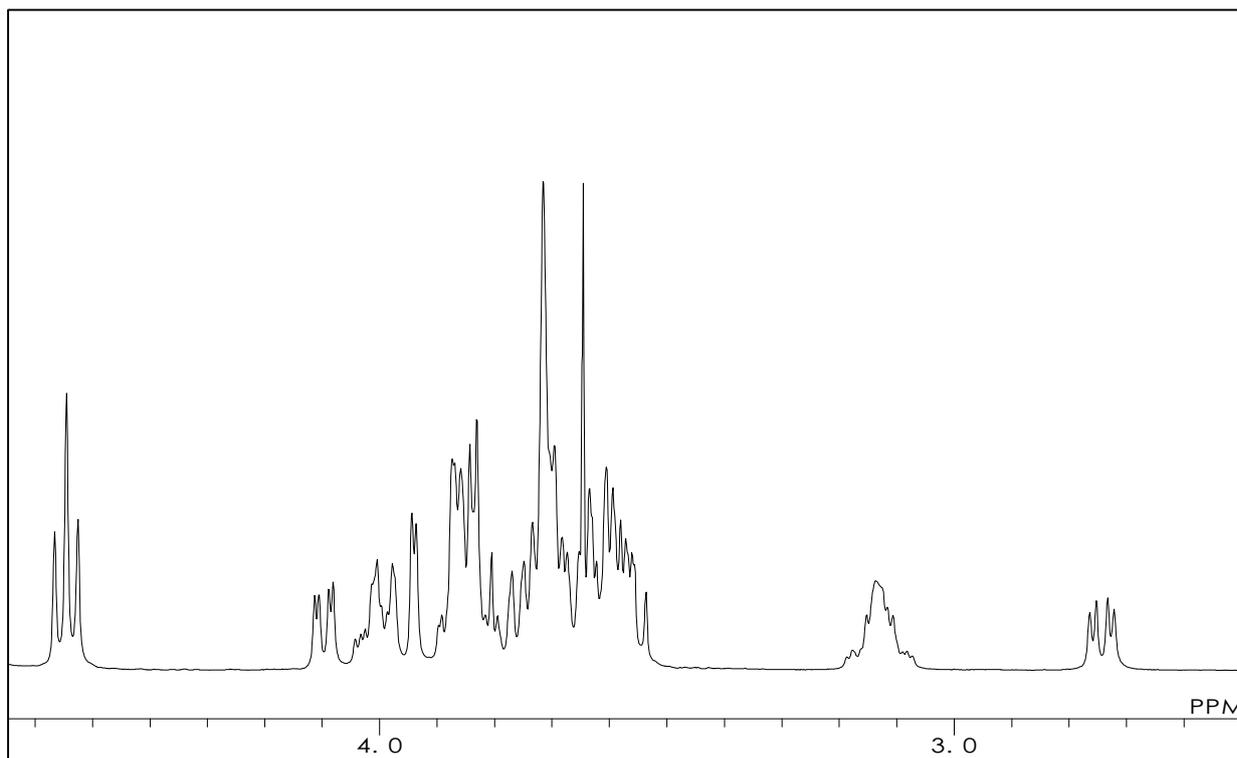
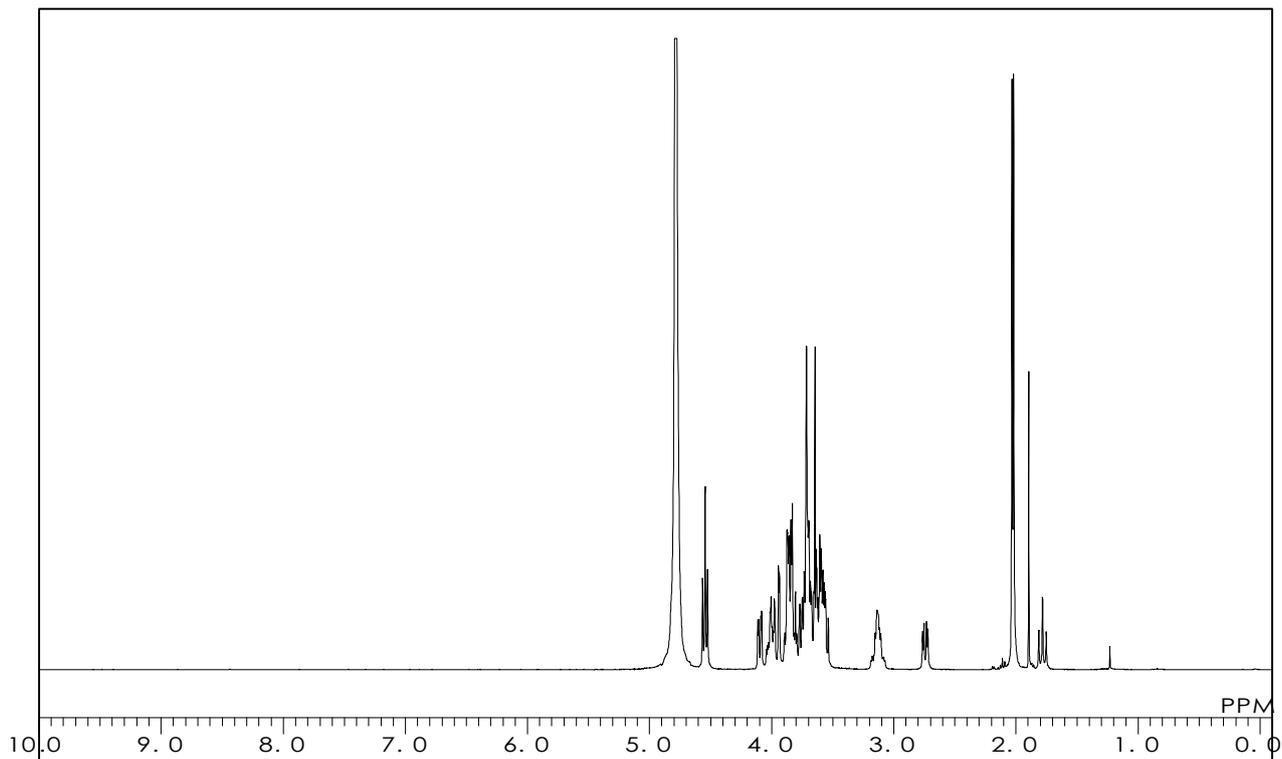
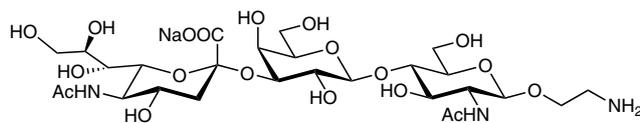
Neu5Ac α (2-3)Gal β (1-4)GlcNAc- β -ethylamine

$C_{27}H_{46}N_3NaO_{19} = 739.66$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.4 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N0950

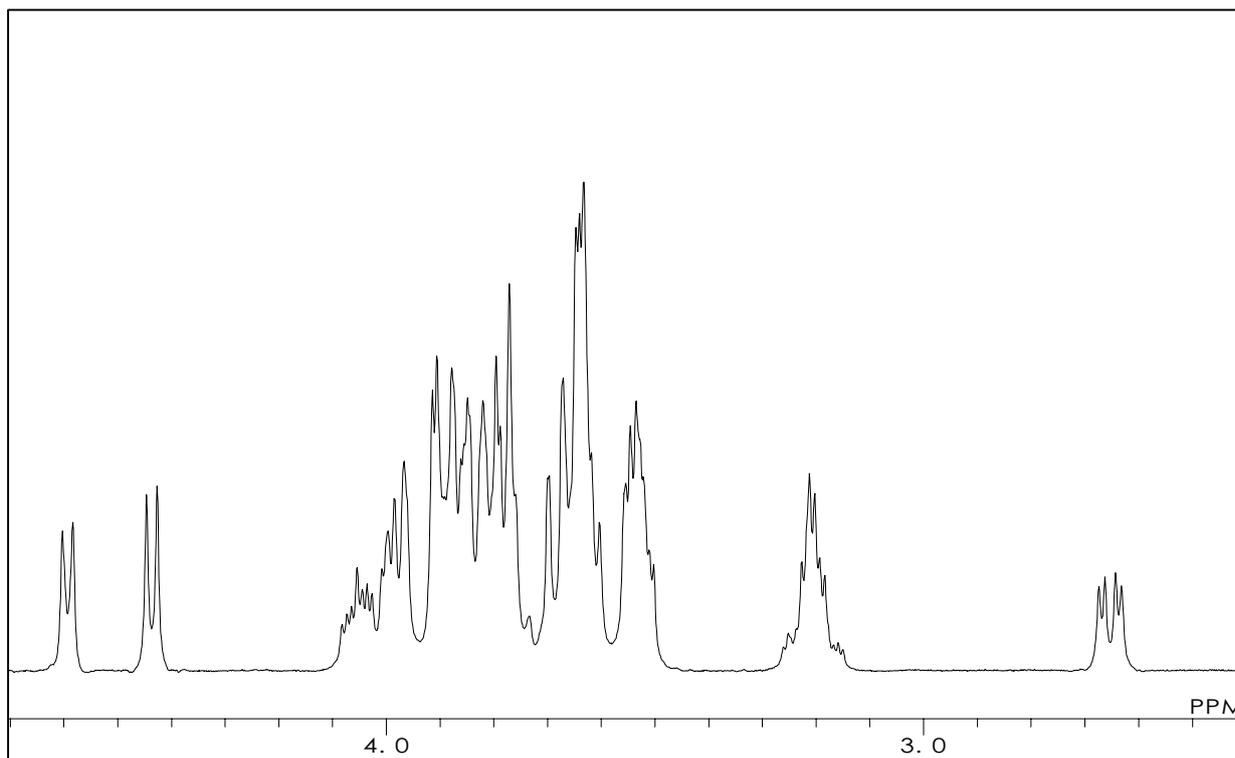
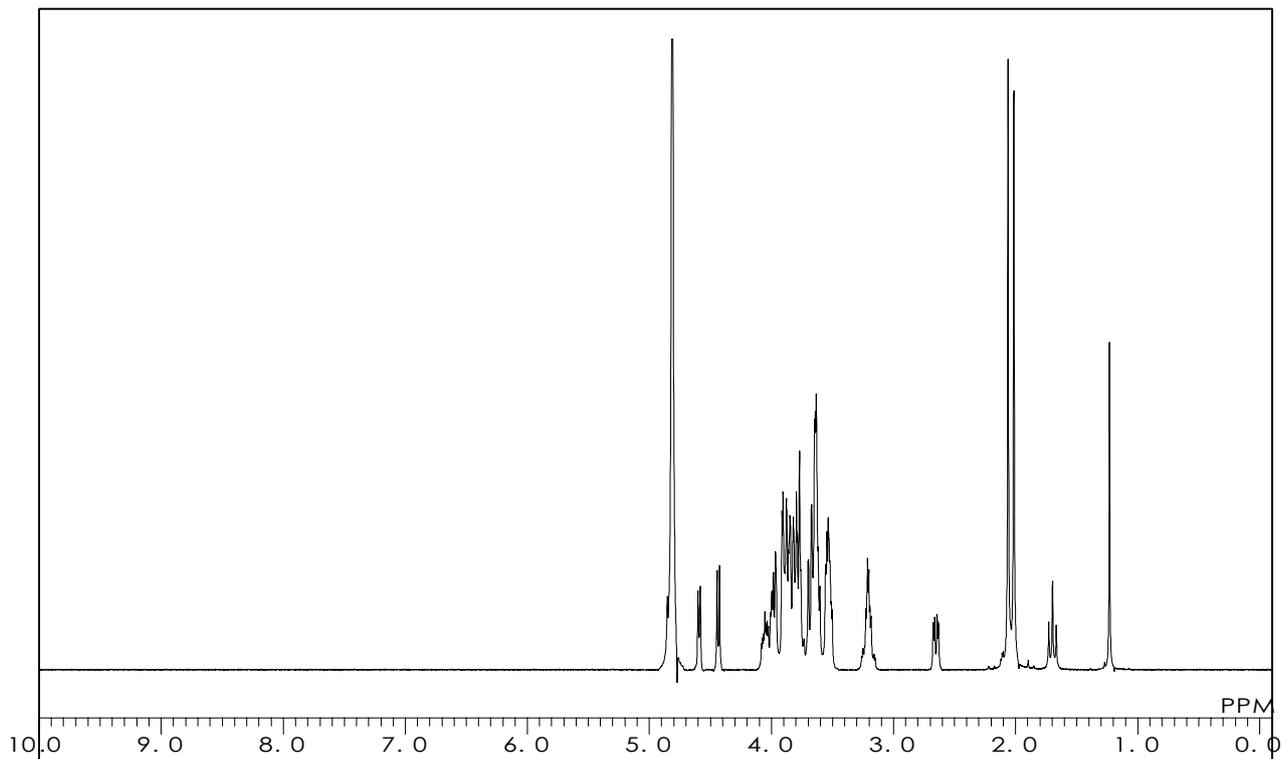
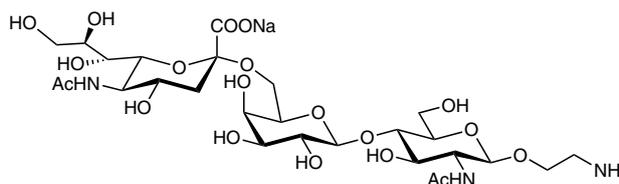
Neu5Ac α (2-6)Gal β (1-4)GlcNAc- β -ethylamine

$C_{27}H_{46}N_3NaO_{19} = 739.66$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

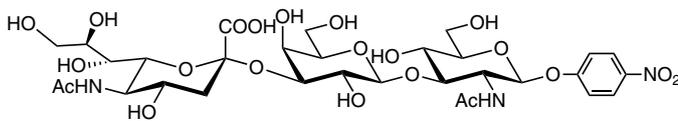
Measured Temperature : 20.6 °C



N0853

Neu5Ac α (2-3)Gal β (1-3)GlcNAc- β -pNP

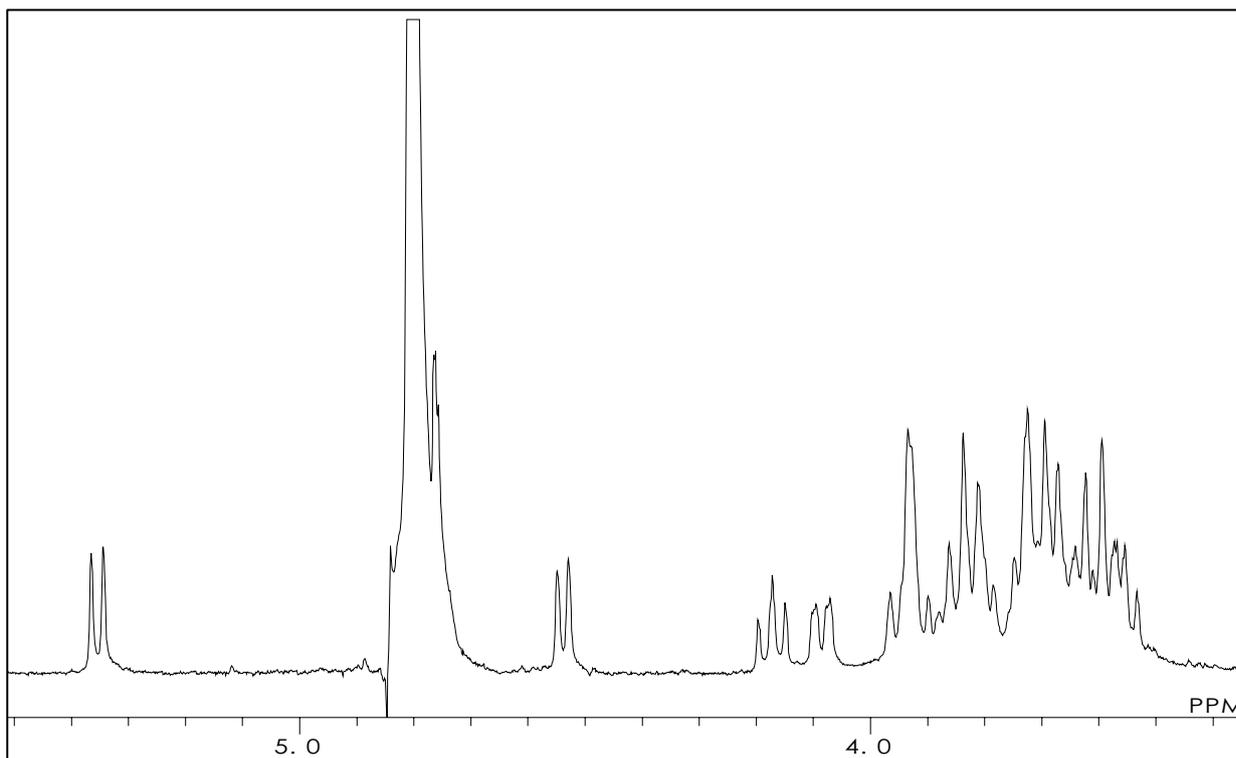
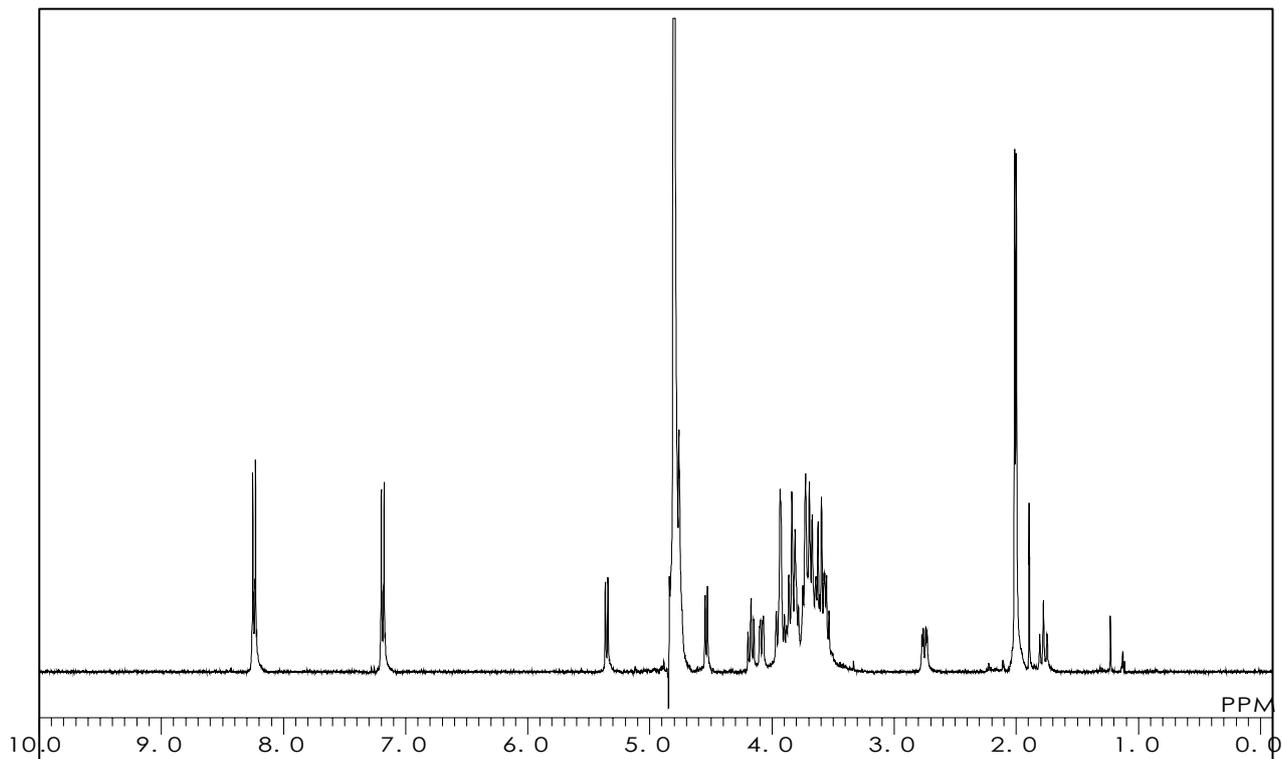
C₃₁H₄₅N₃O₂₁ = 795.70 [1363424-95-6]



Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N0854

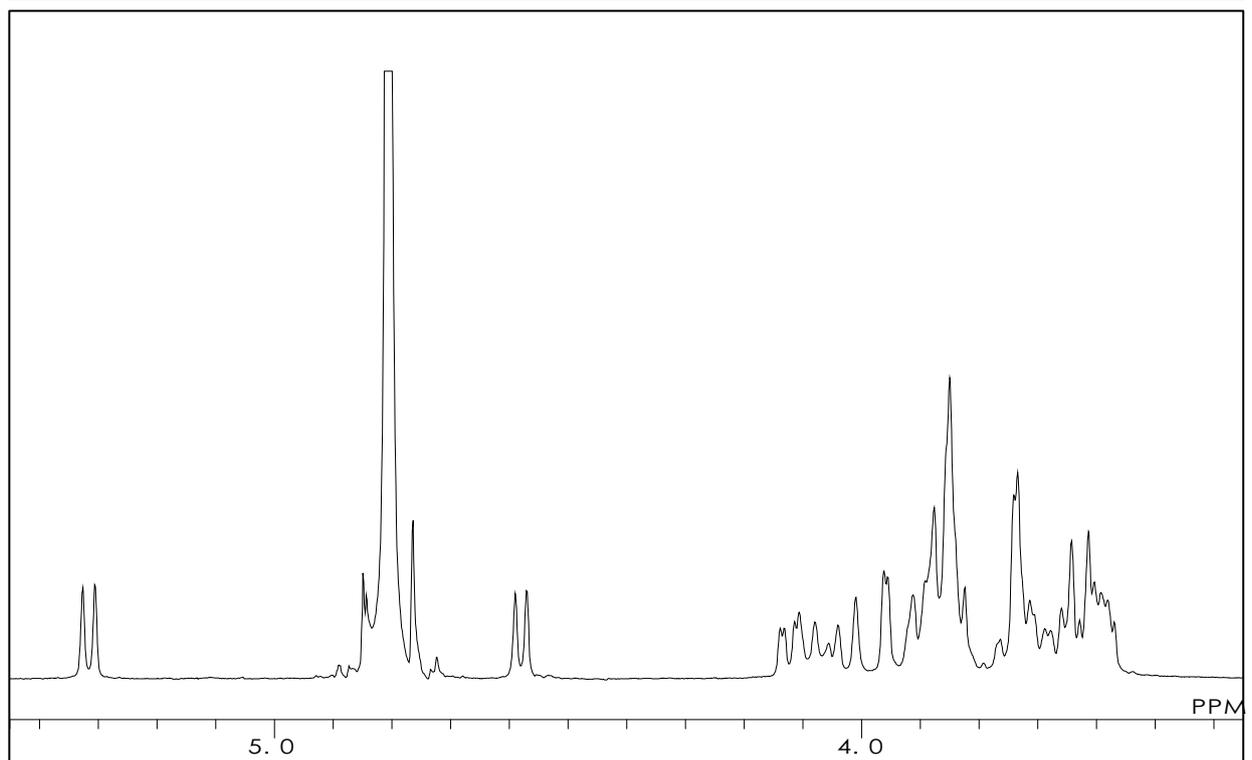
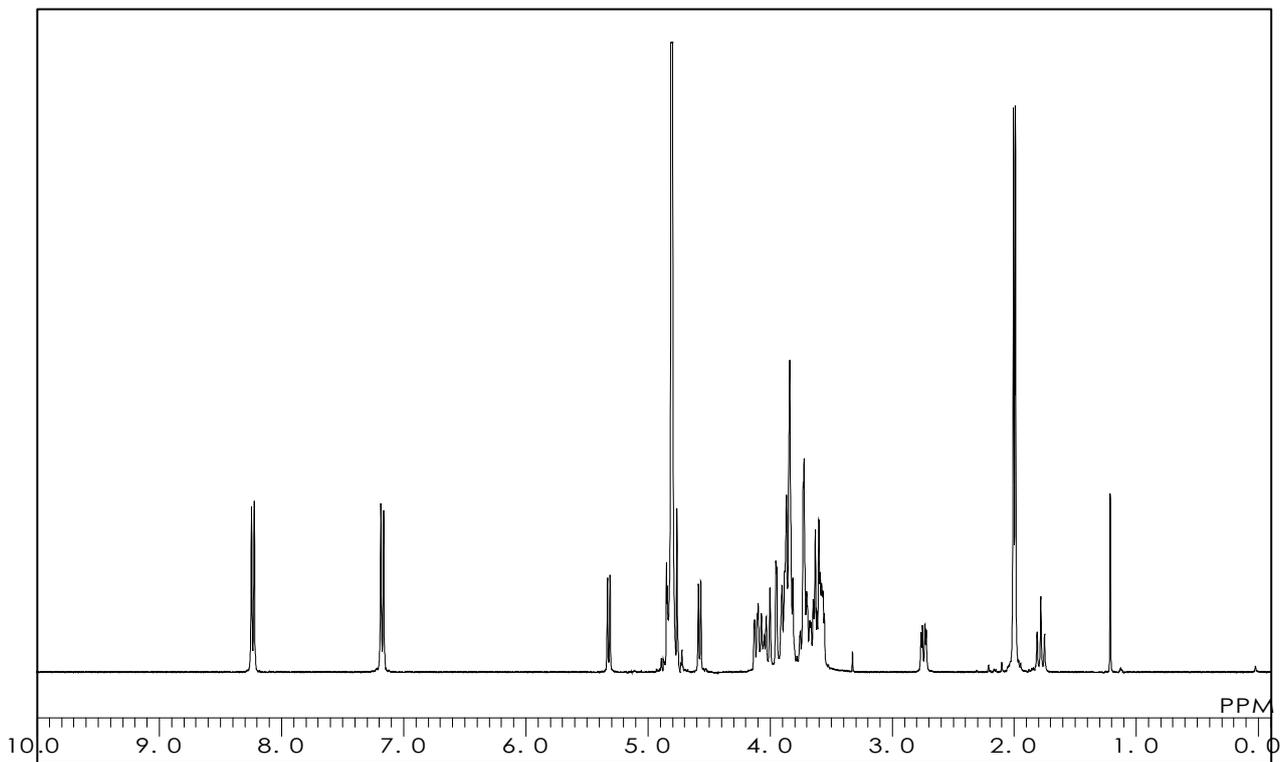
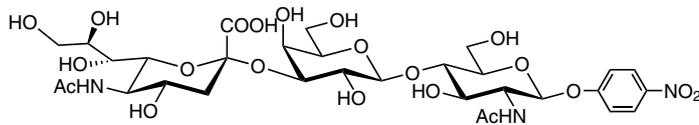
Neu5Aca(2-3)Galβ(1-4)GlcNAc-β-pNP

C₃₁H₄₅N₃O₂₁ = 795.70 [501427-92-5]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 20.3 °C



N0855

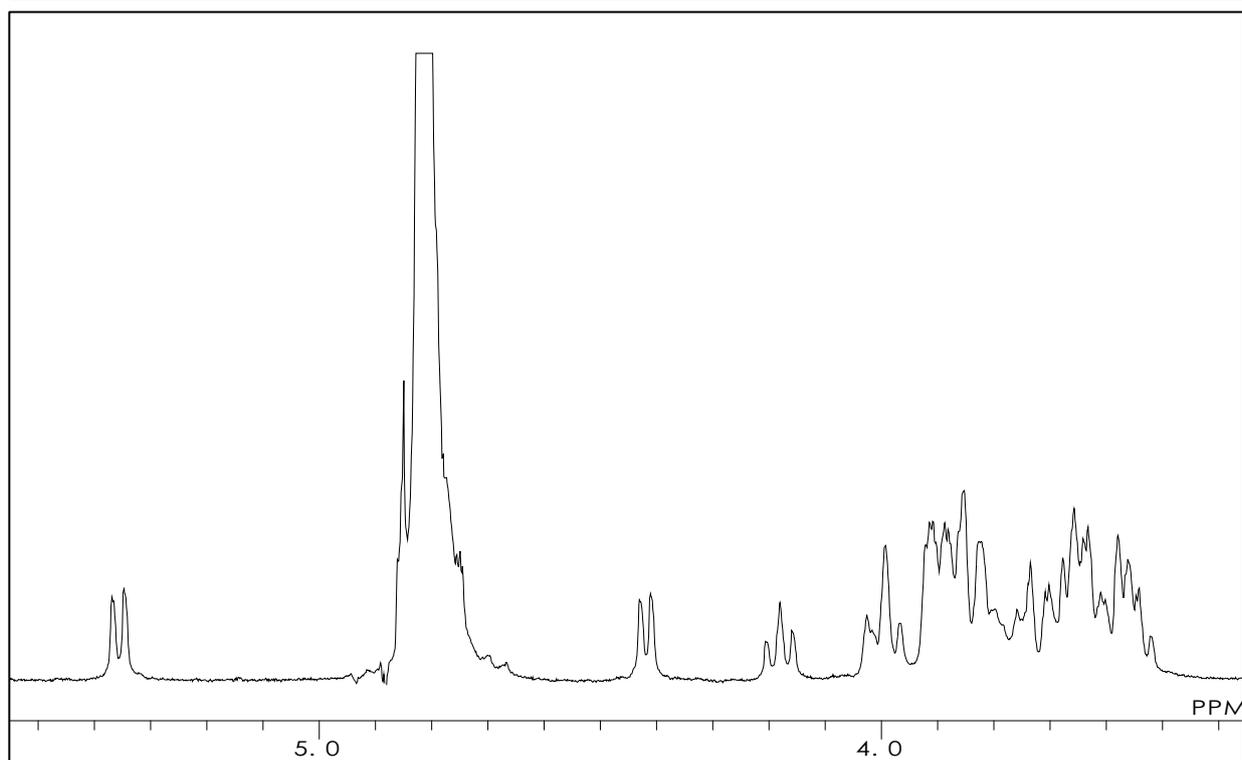
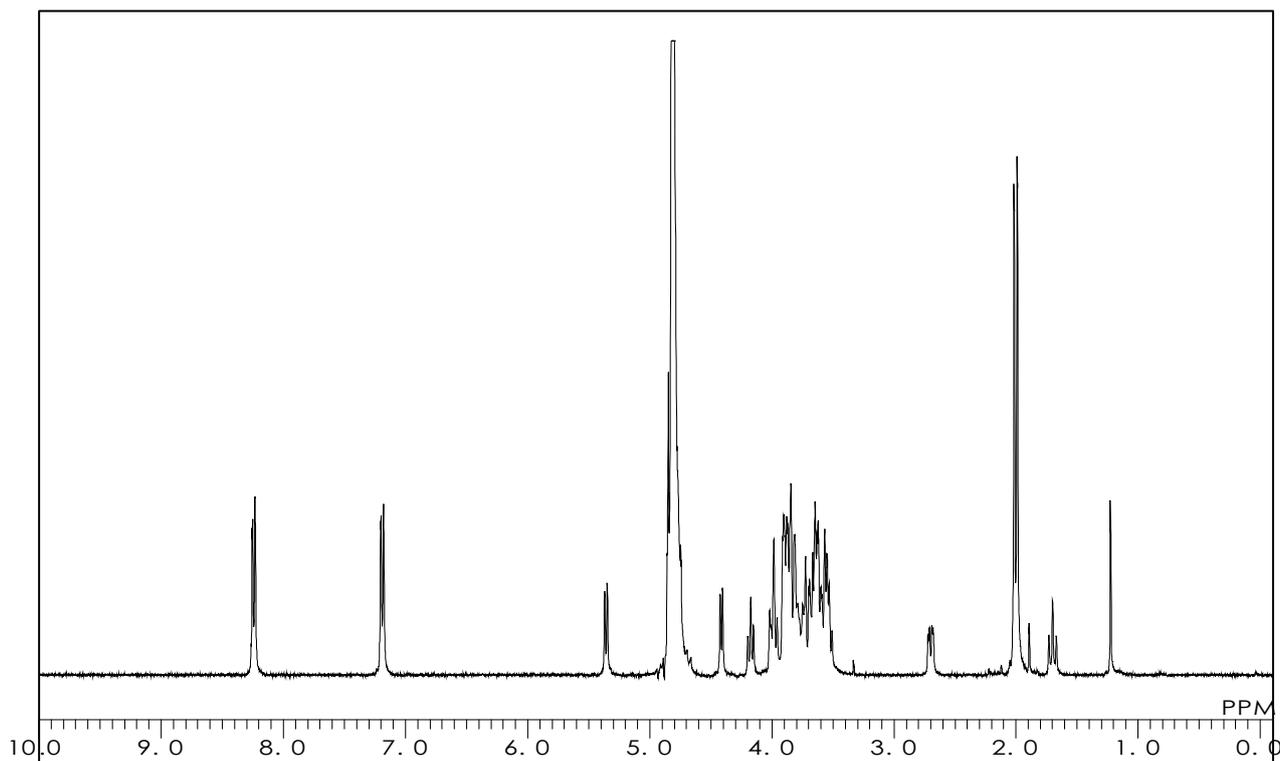
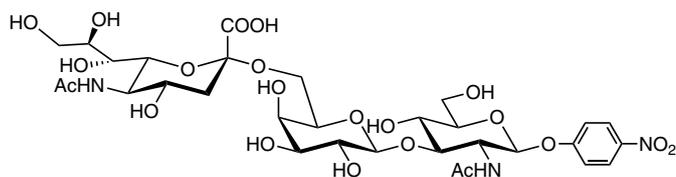
Neu5Ac α (2-6)Gal β (1-3)GlcNAc- β -pNP

C₃₁H₄₅N₃O₂₁ = 795.70

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 19.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N0856

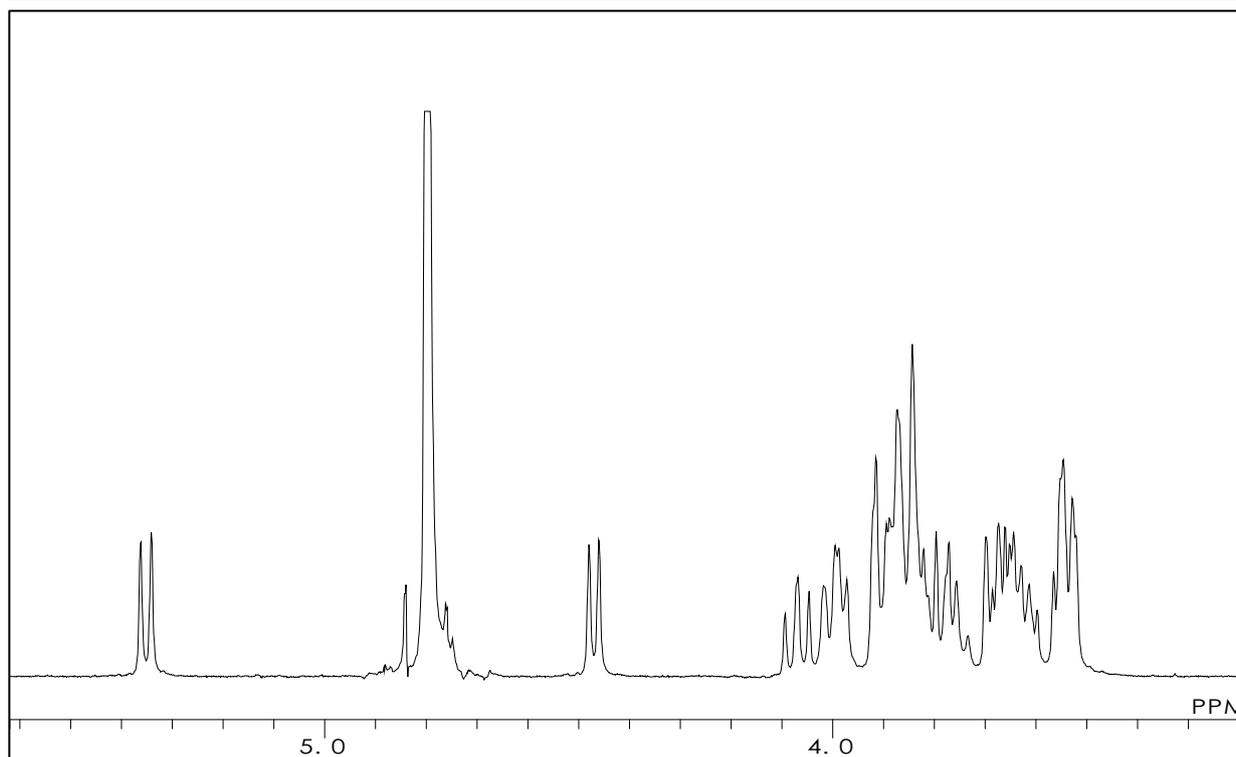
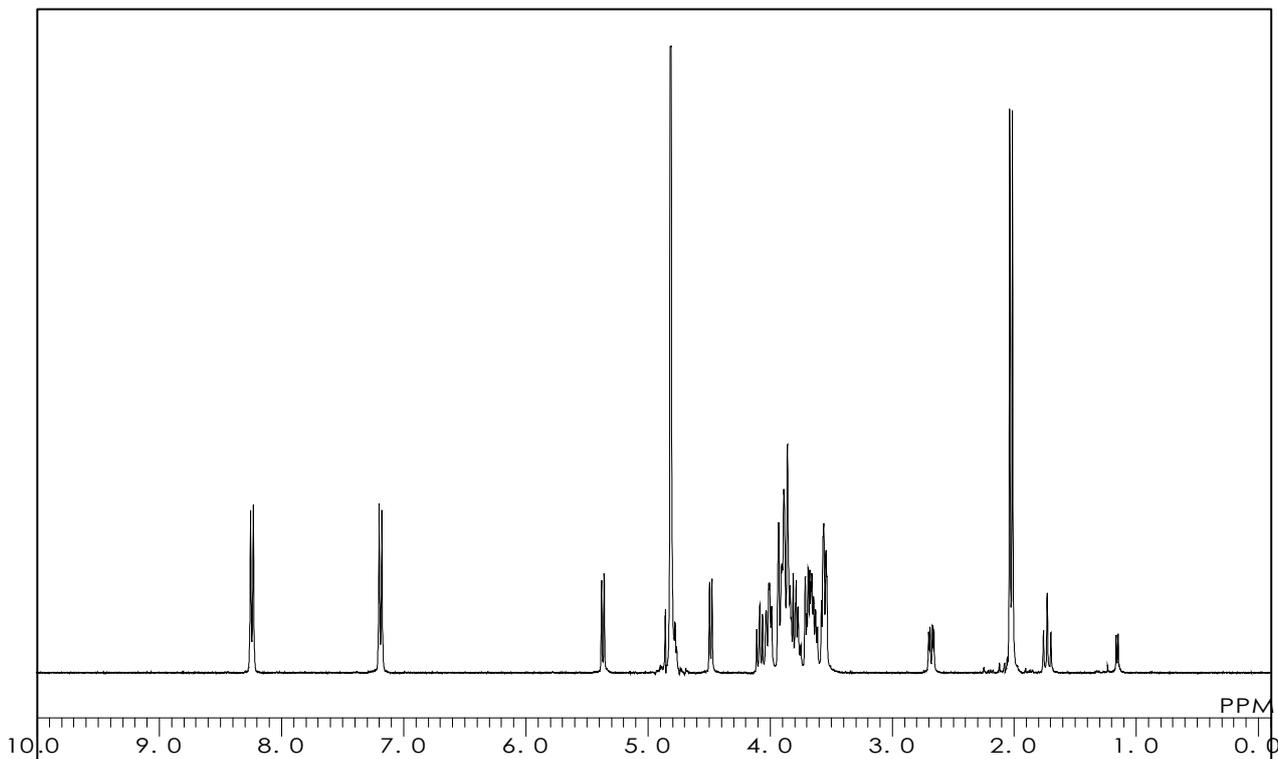
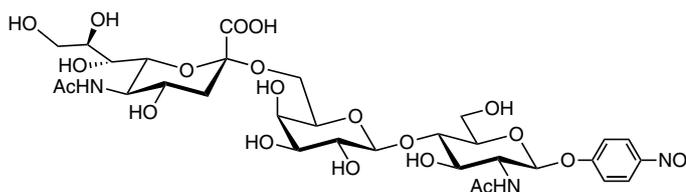
Neu5Ac α (2-6)Gal β (1-4)GlcNAc- β -pNP

C₃₁H₄₅N₃O₂₁ = 795.70 [501427-93-6]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.2 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

N0860

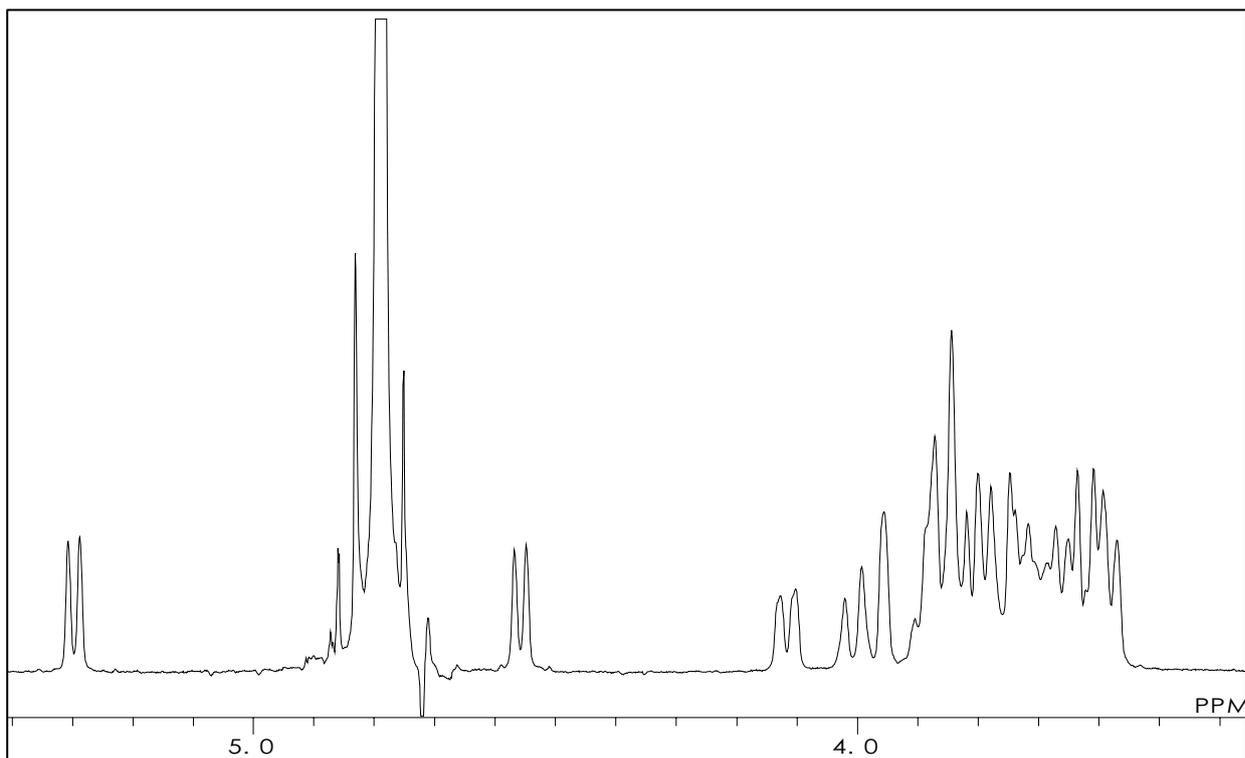
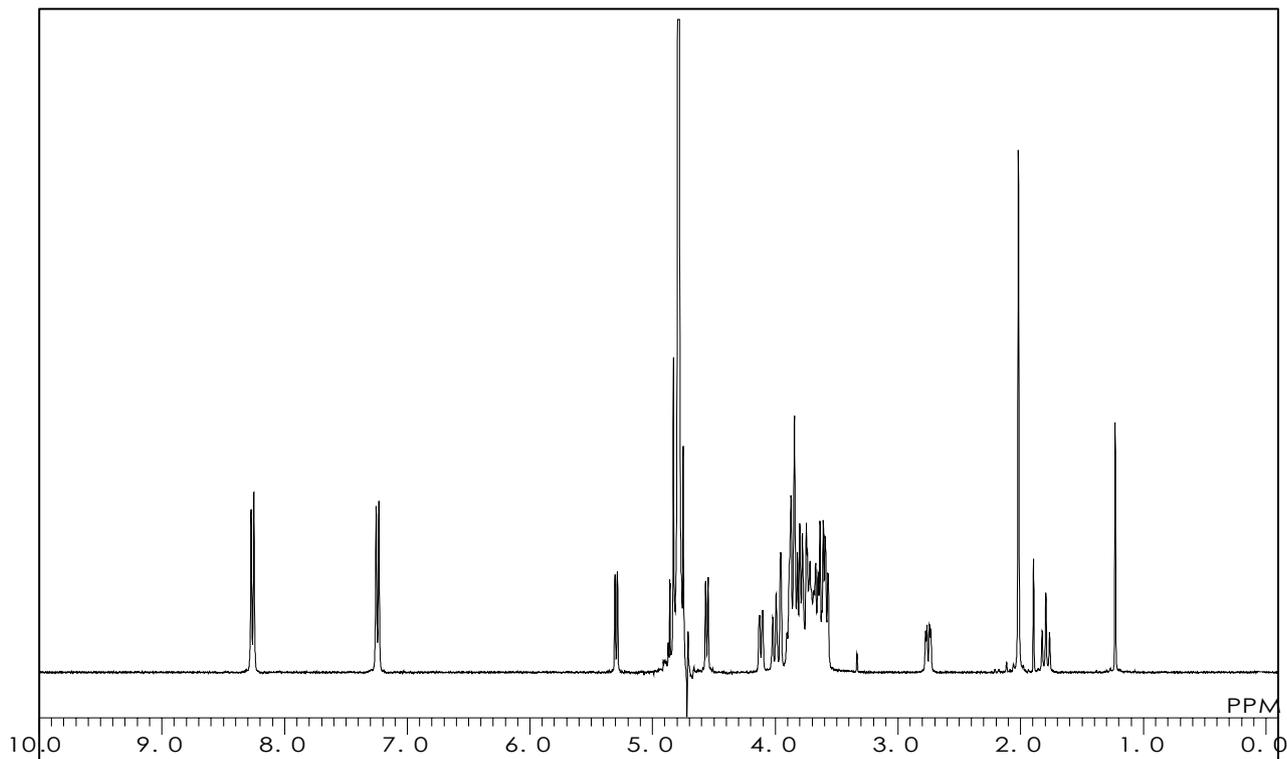
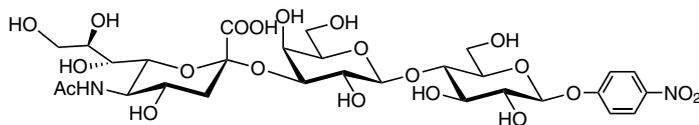
Neu5Ac α (2-3)Gal β (1-4)Glc- β -pNP

$C_{29}H_{42}N_2O_{21} = 754.65$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

T2912

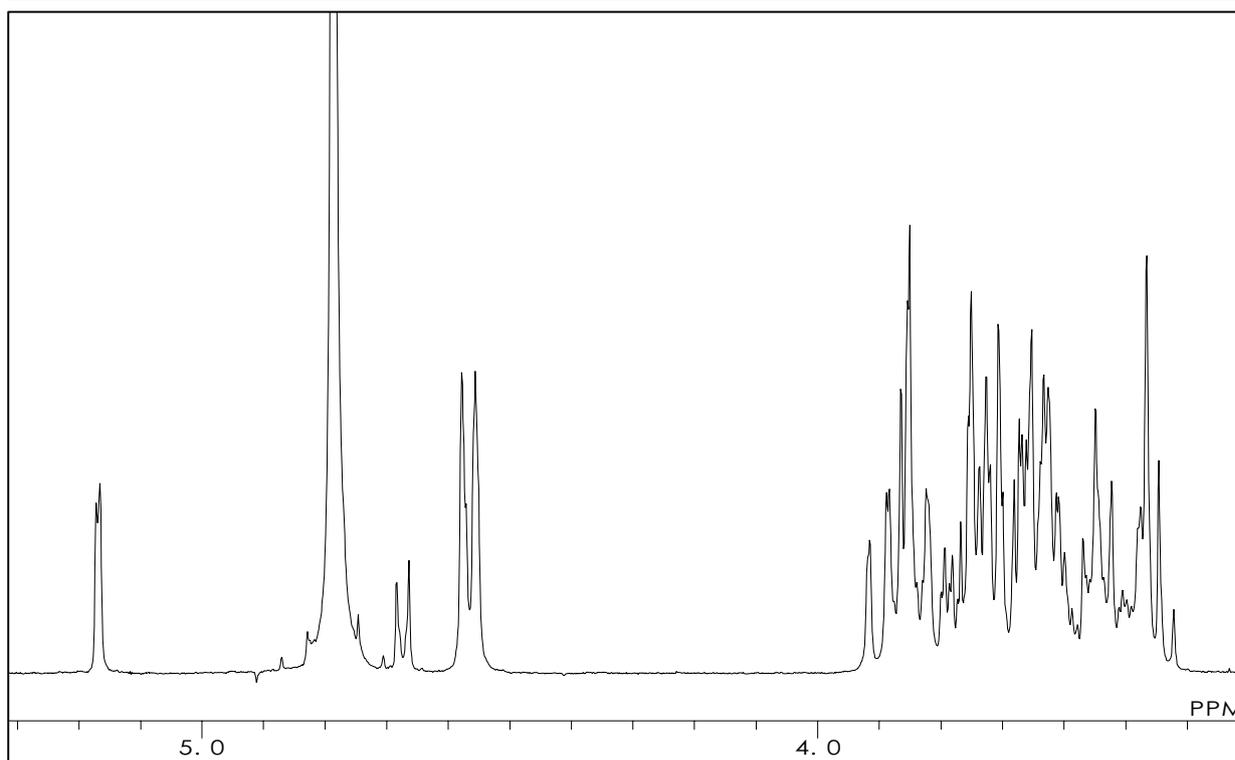
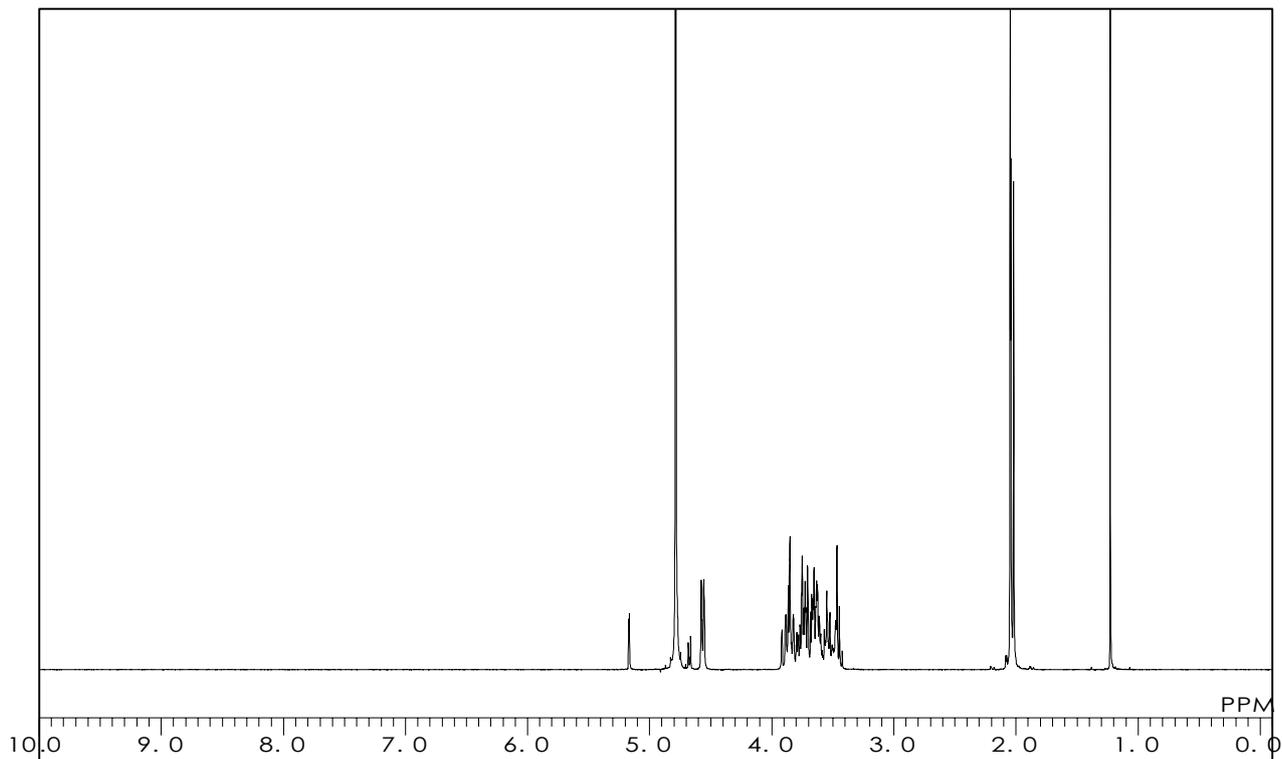
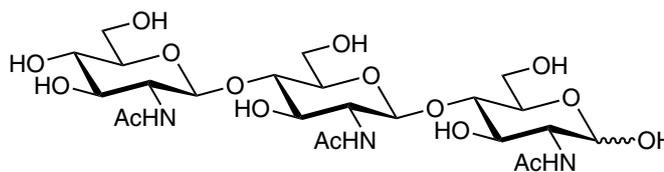
N,N',N''-Triacetylchitotriose

$C_{24}H_{41}N_3O_{16} = 627.60$ [38864-21-0]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.4 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

C2796

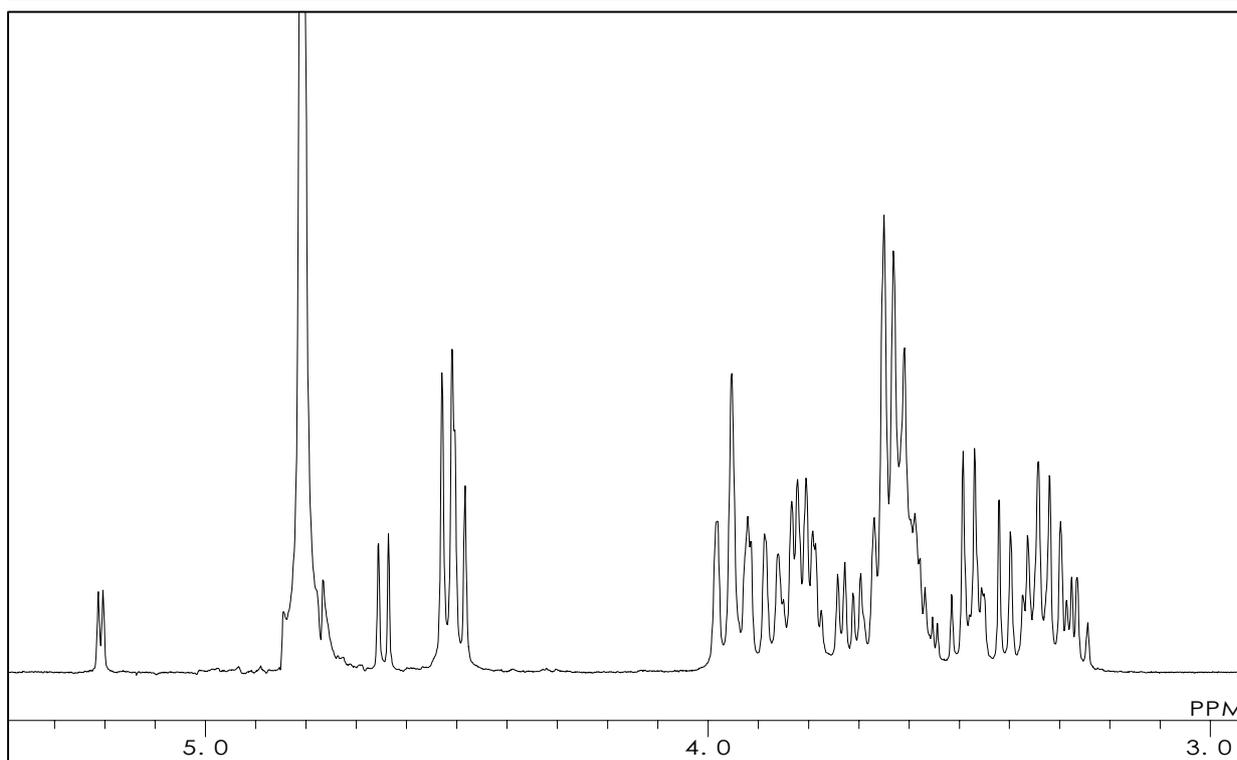
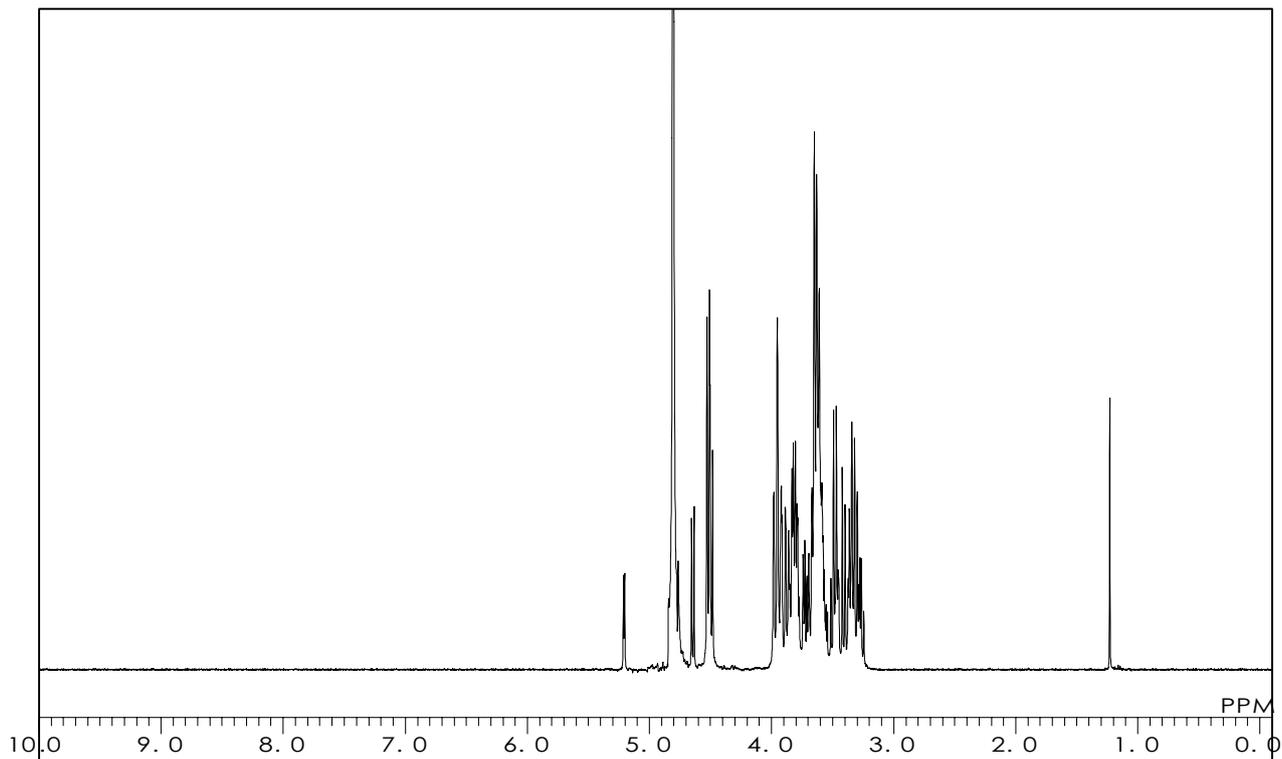
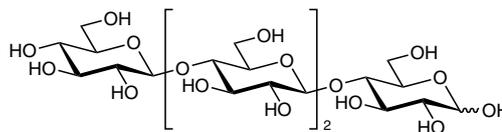
Cellotetraose

$C_{24}H_{42}O_{21} = 666.58$ [38819-01-1]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.0 °C

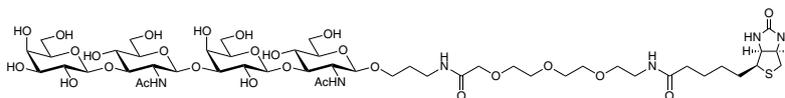


本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0511

Gal β (1-3)GlcNAc β (1-3)Gal β (1-3)GlcNAc- β -PEG₃-biotin

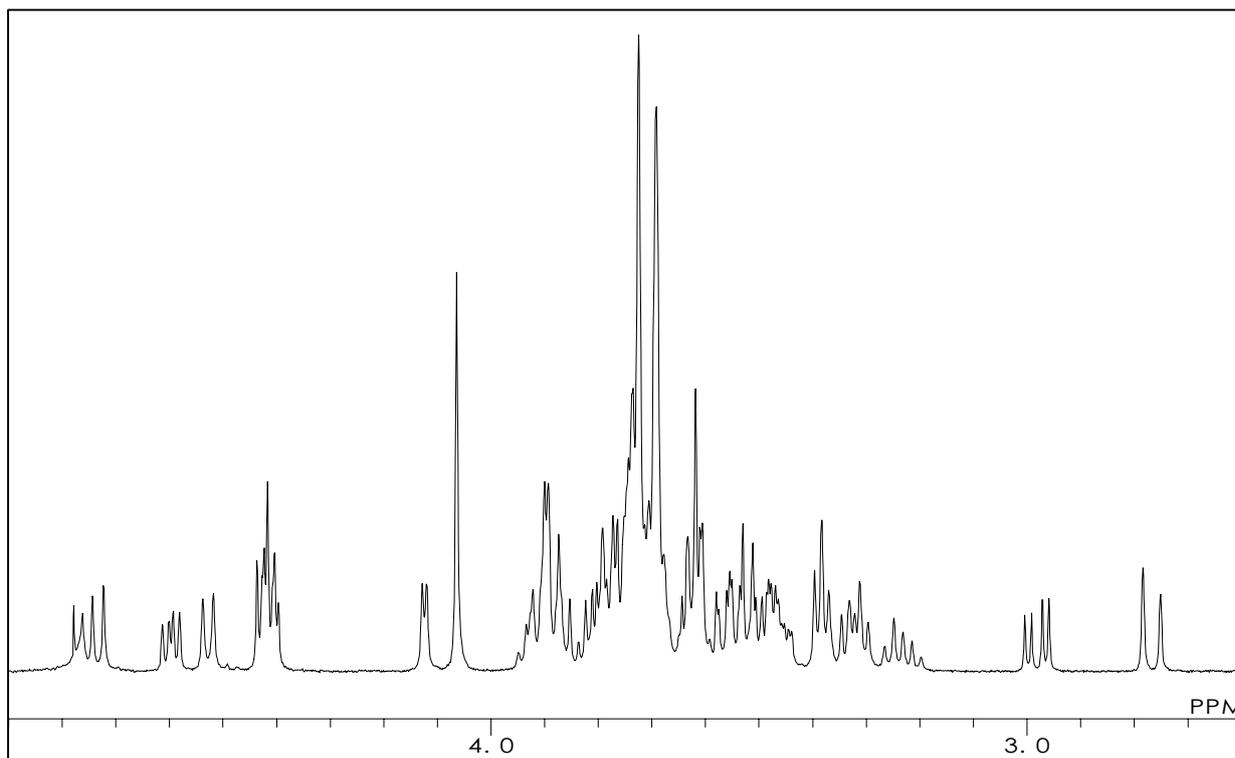
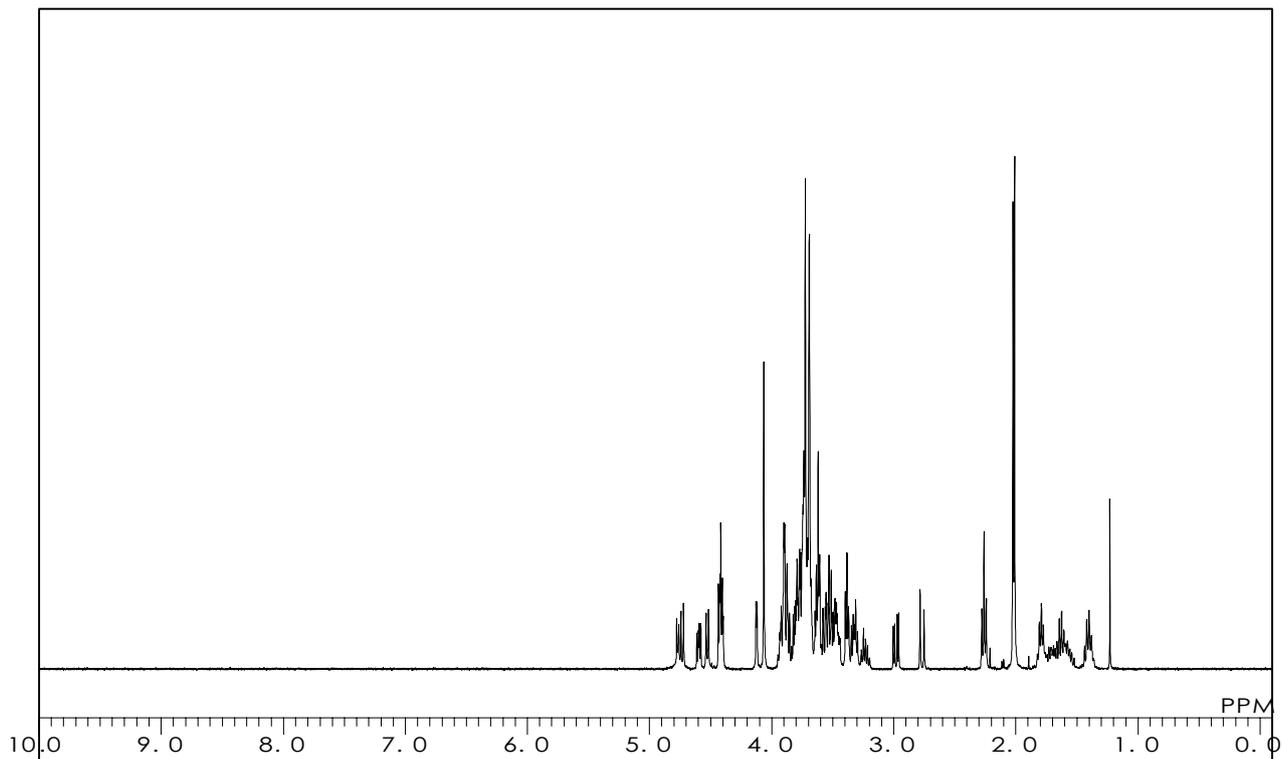
C₄₉H₈₄N₆O₂₇S = 1221.29



Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

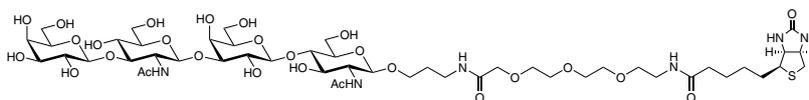
Measured Temperature : 23.7 °C



G0513

Gal β (1-3)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -PEG₃-biotin

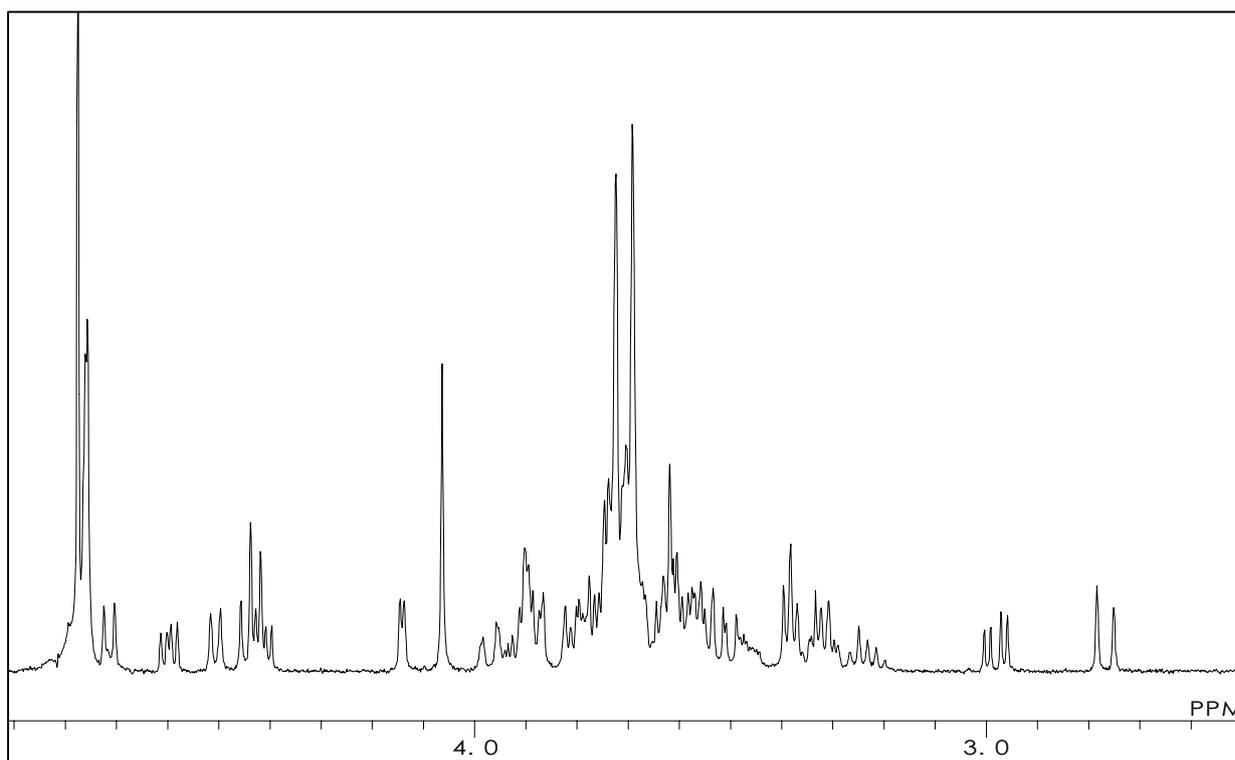
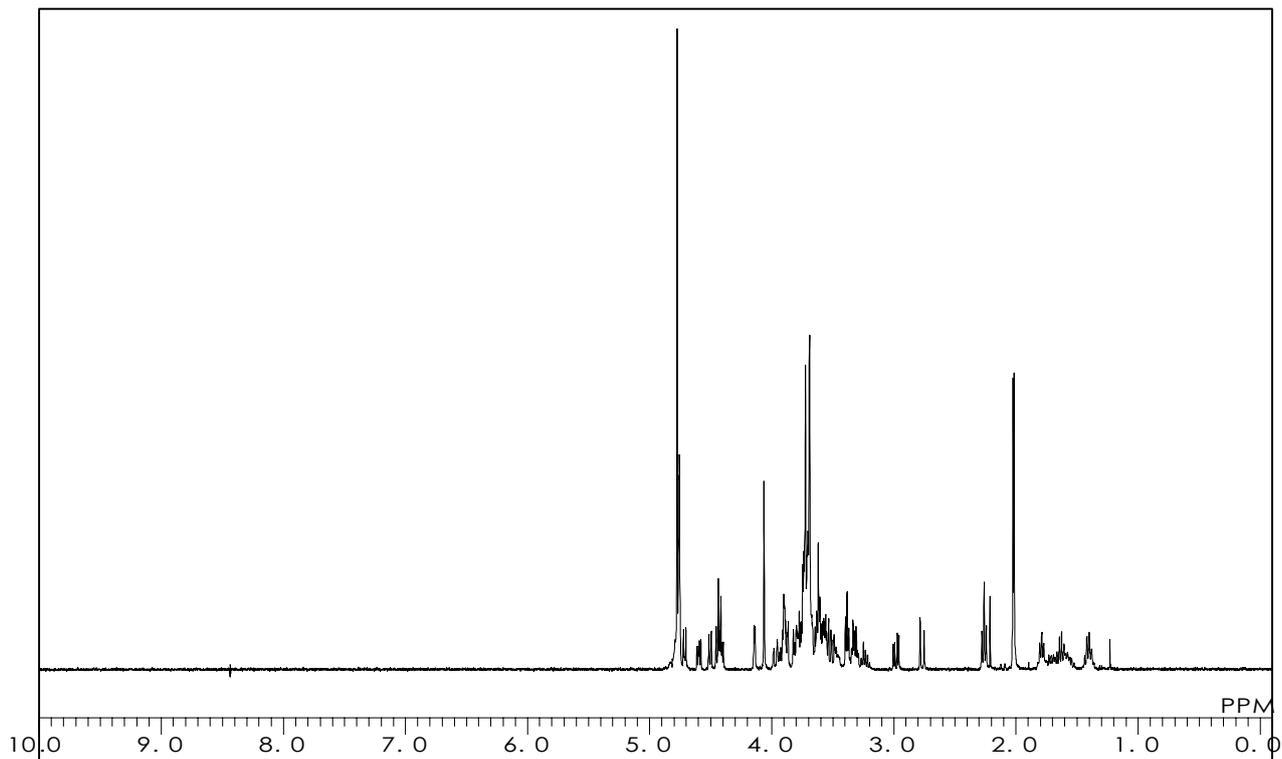
C₄₉H₈₄N₆O₂₇S = 1221.29



Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.1 °C

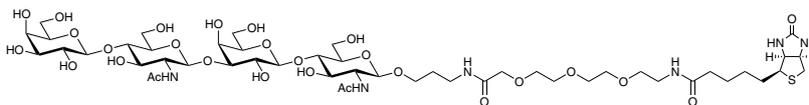


本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0515

Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -PEG₃-biotin

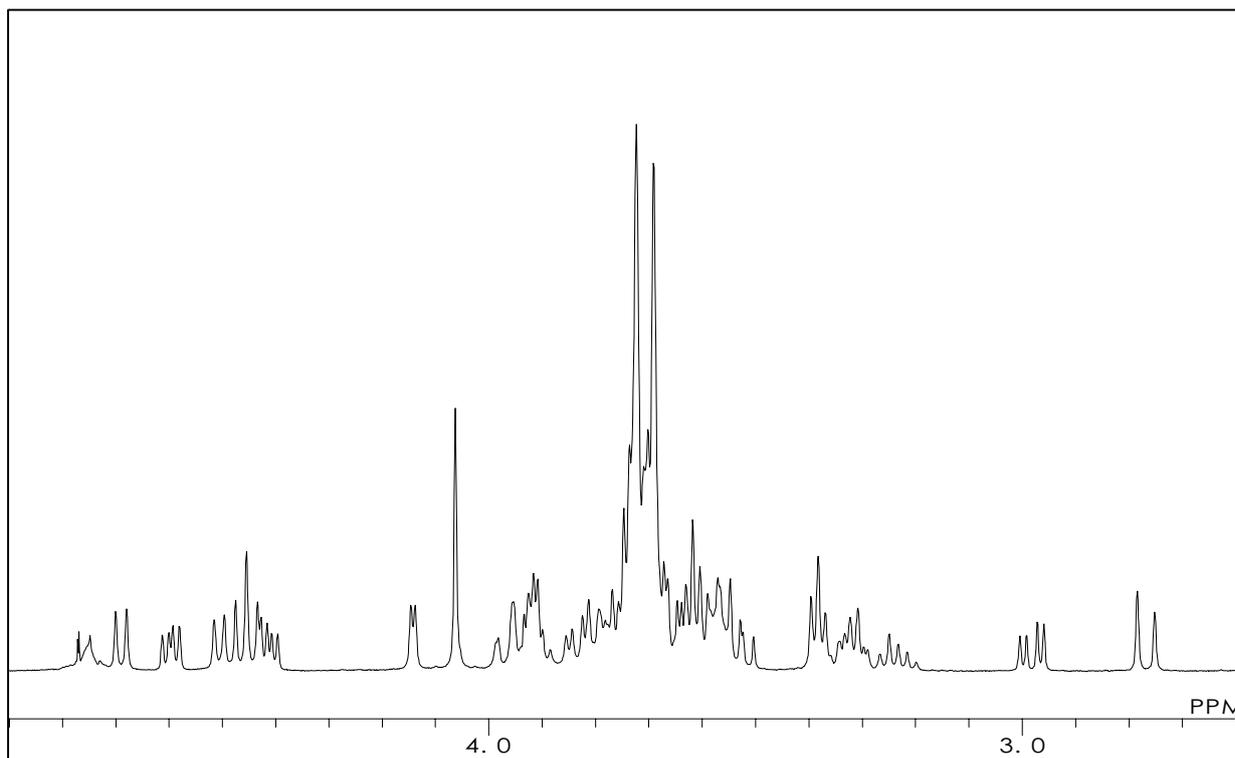
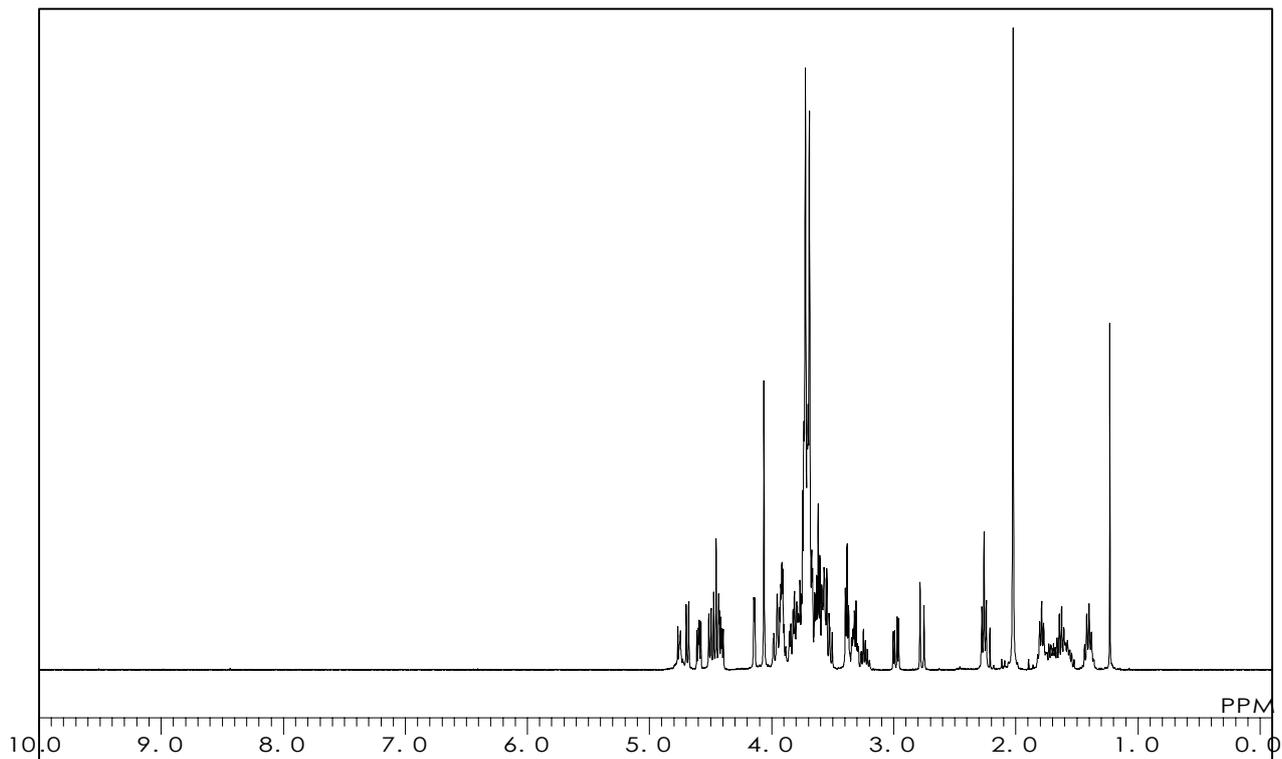
$C_{49}H_{84}N_6O_{27}S = 1221.29$



Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

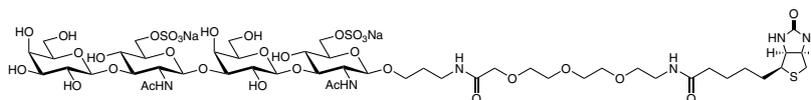
Measured Temperature : 24.5 °C



G0512

Gal β (1-3)GlcNAc[6S] β (1-3)Gal β (1-3)GlcNAc[6S]- β -PEG₃-biotin

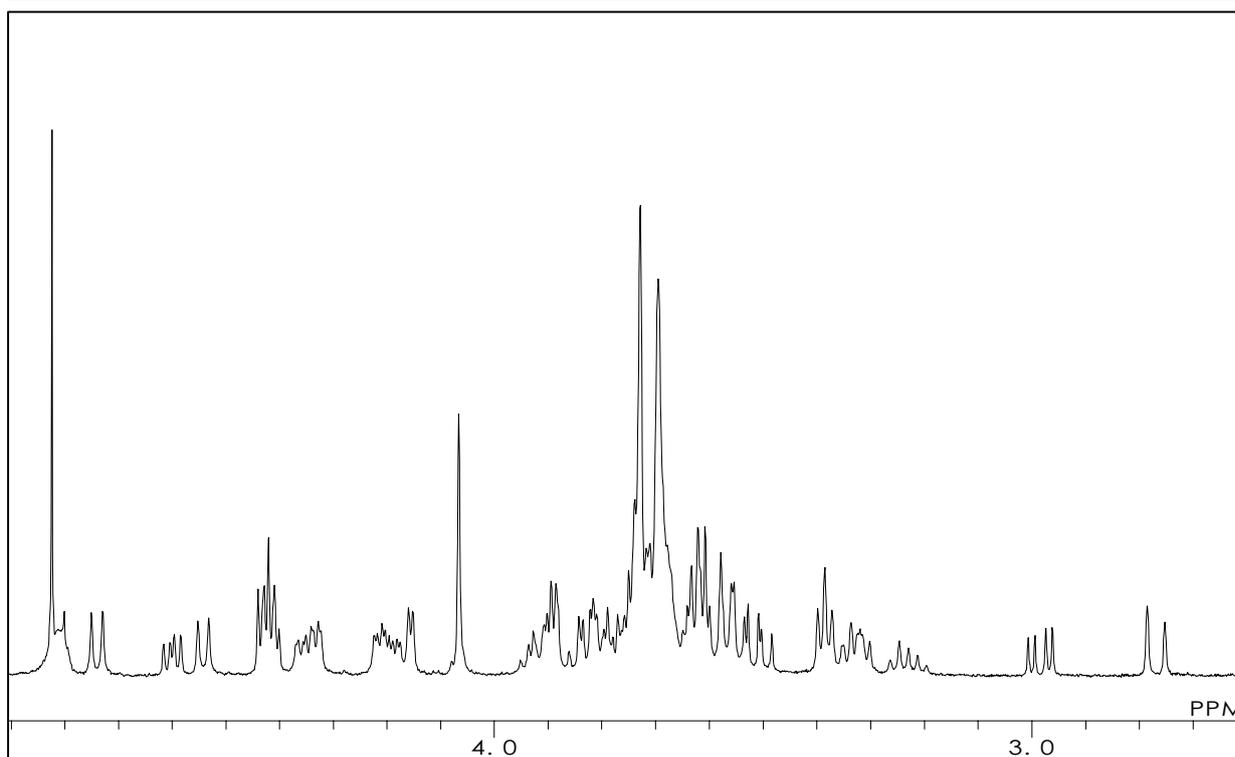
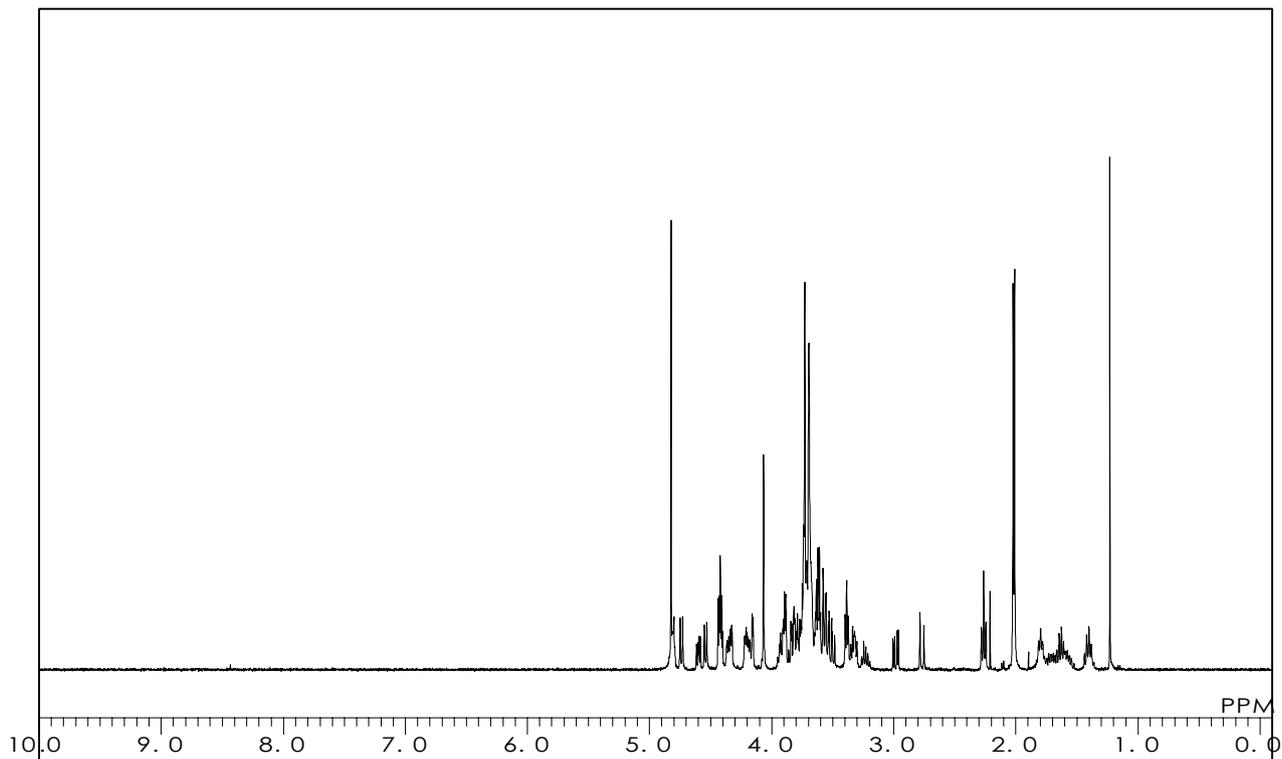
$C_{49}H_{82}N_6Na_2O_{33}S_3 = 1425.36$



Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 19.9 °C

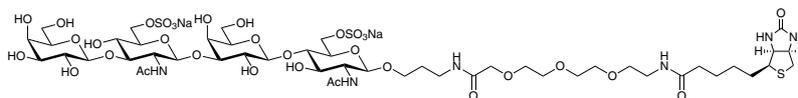


本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0514

Gal β (1-3)GlcNAc[6S] β (1-3)Gal β (1-4)GlcNAc[6S]- β -PEG₃-biotin

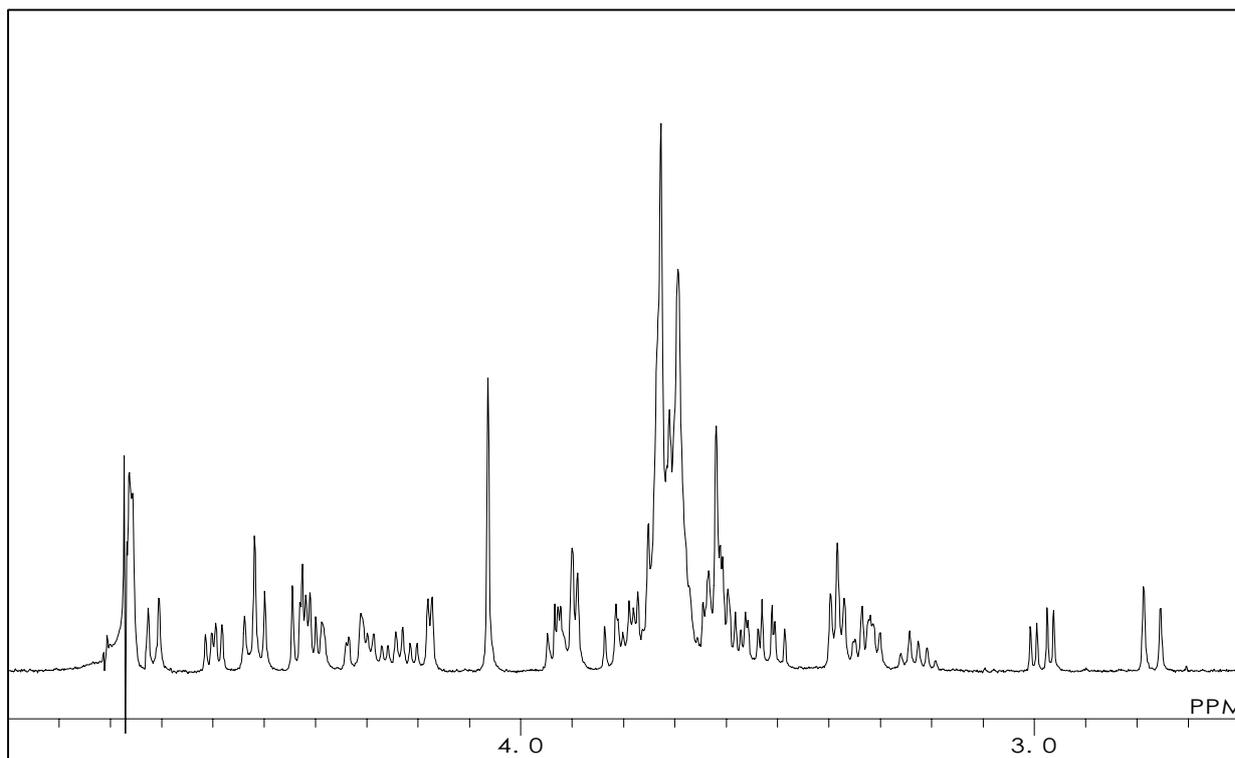
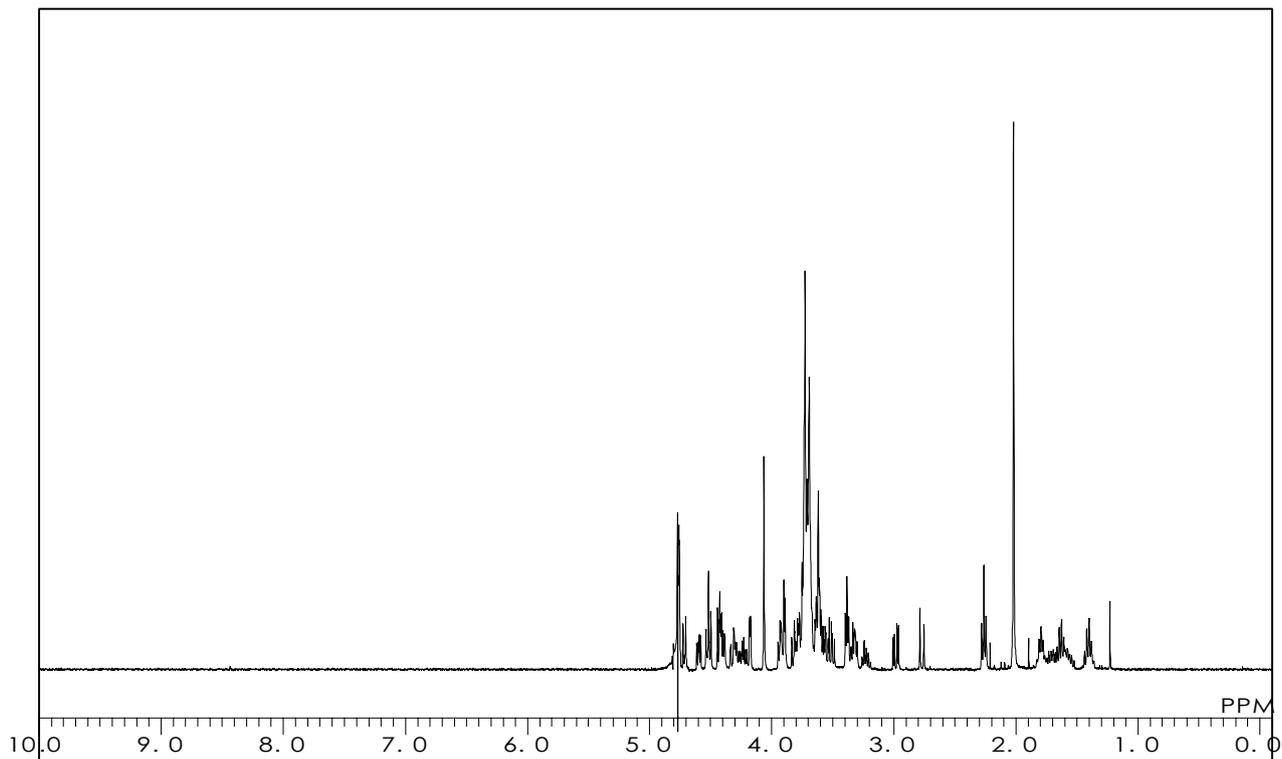
$C_{49}H_{82}N_6Na_2O_{33}S_3 = 1425.36$



Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.2 °C



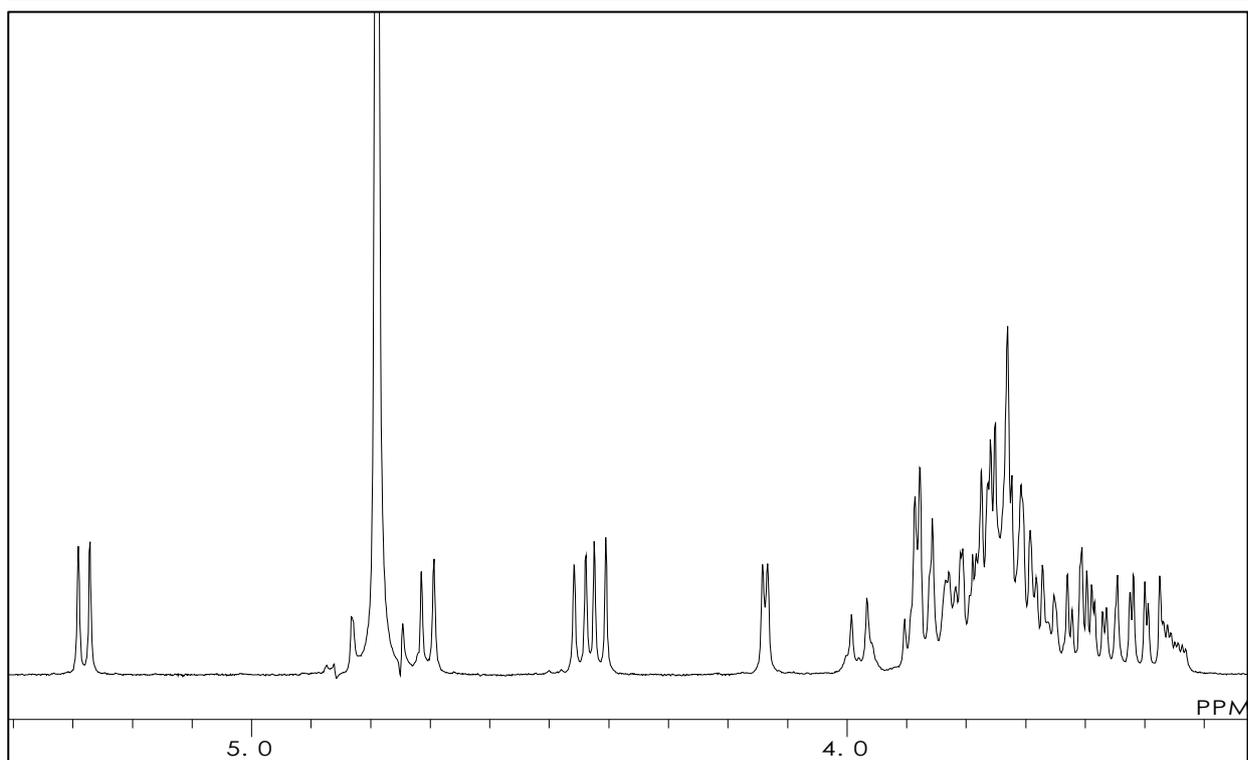
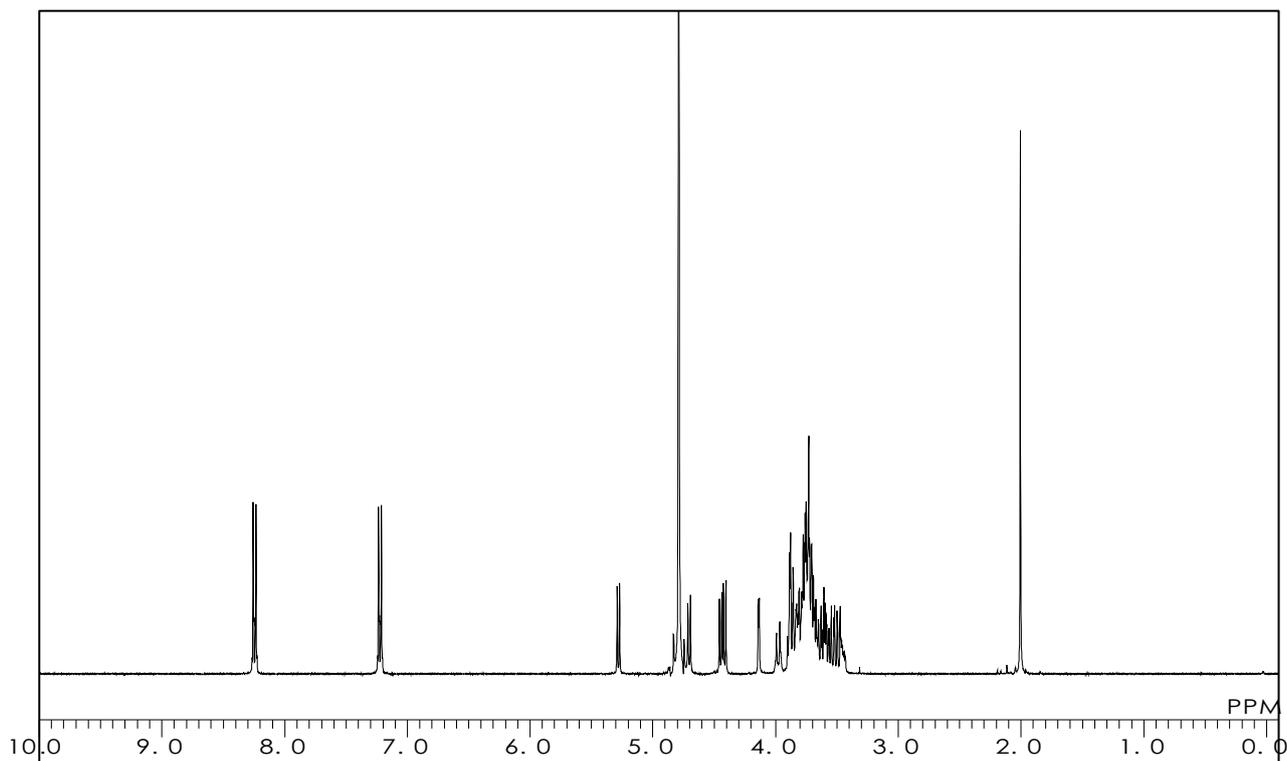
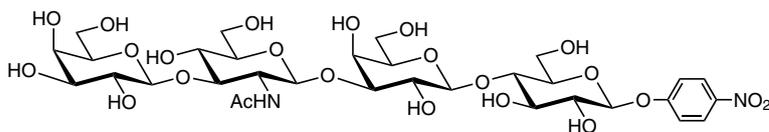
G0348

Gal β (1-3)GlcNAc β (1-3)Gal β (1-4)Glc- β -pNP

C₃₂H₄₈N₂O₂₃ = 828.73 [148705-09-3]

Solvent : D₂O

Measured Temperature : 20.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0351

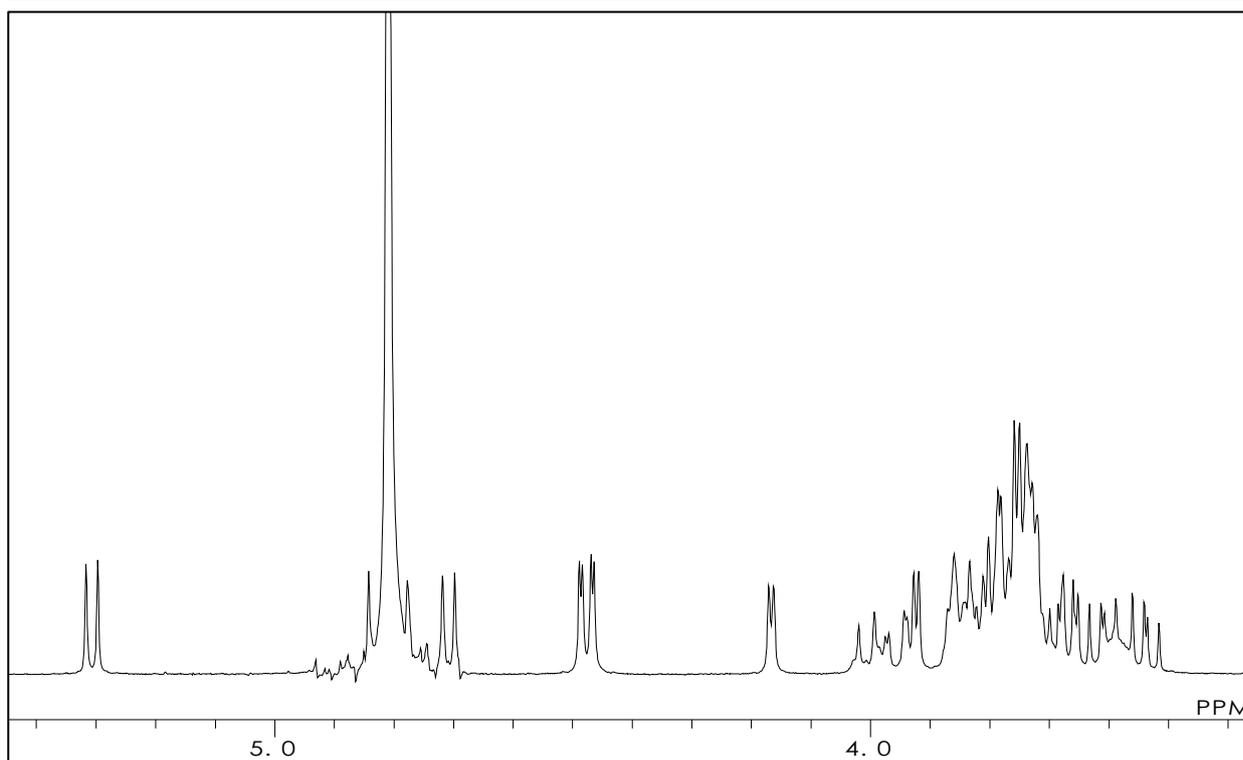
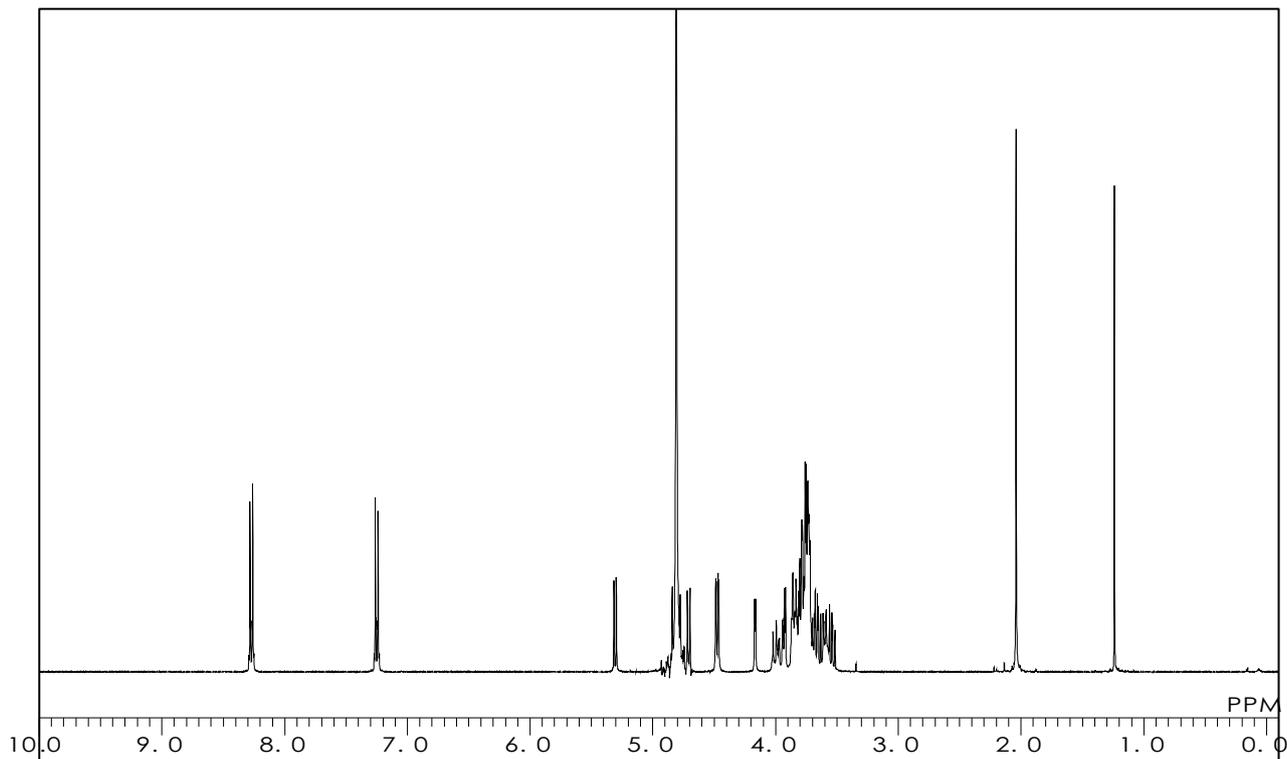
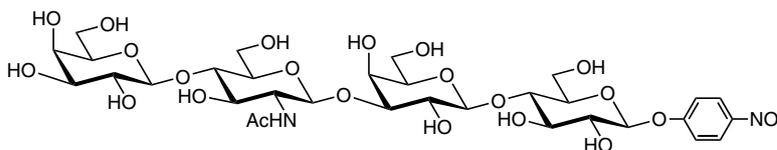
Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)Glc- β -pNP

C₃₂H₄₈N₂O₂₃ = 828.73 [197526-33-3]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.6 °C



G0380

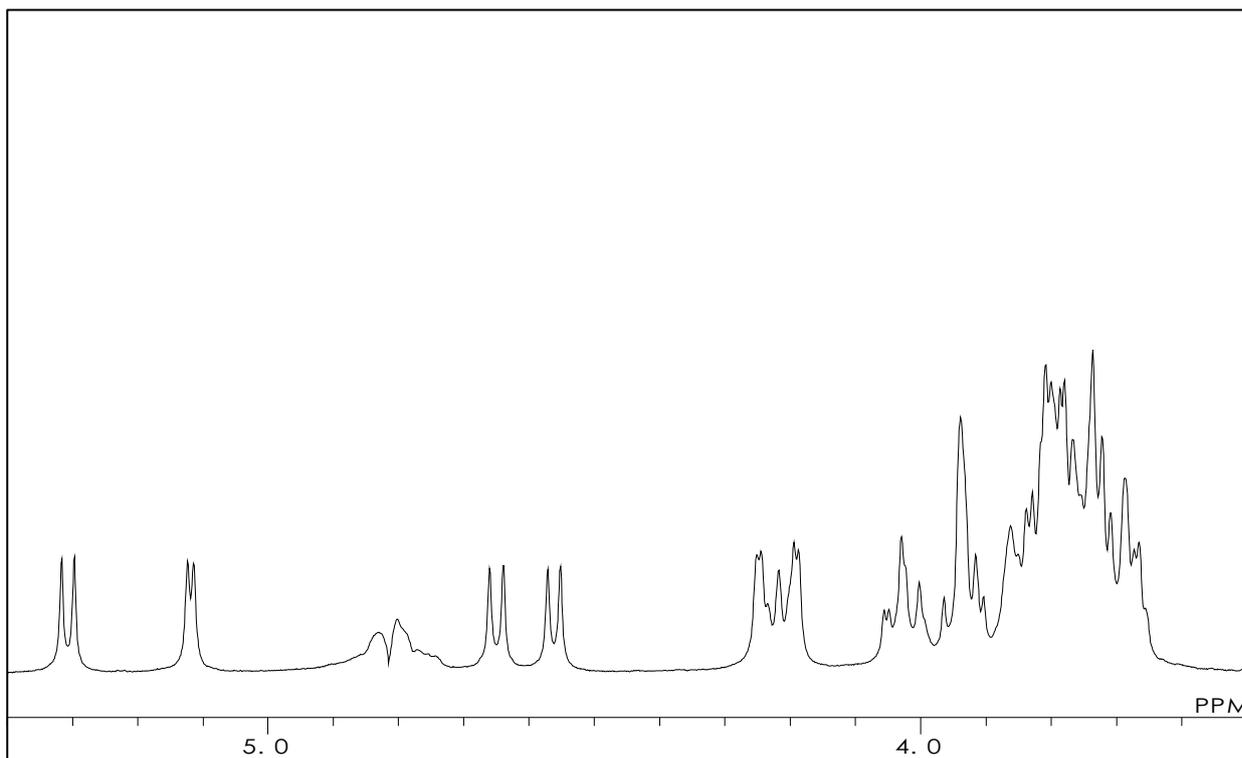
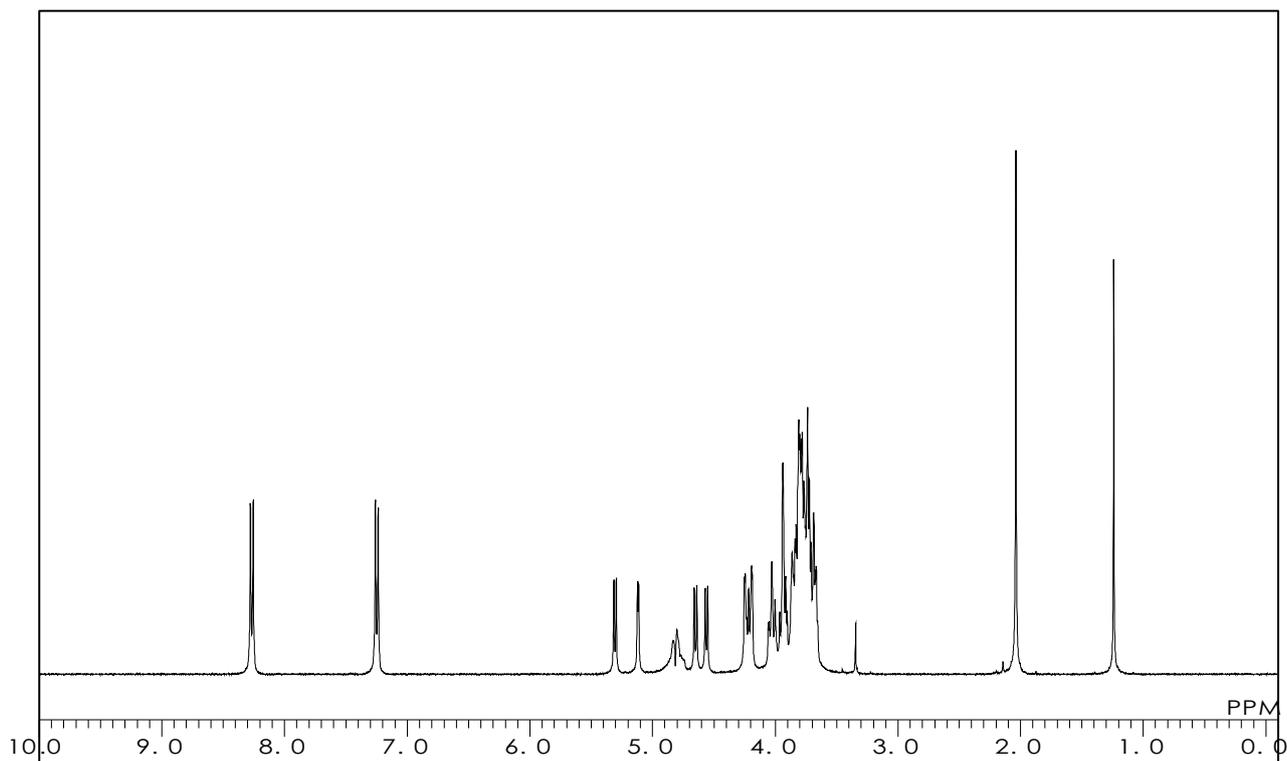
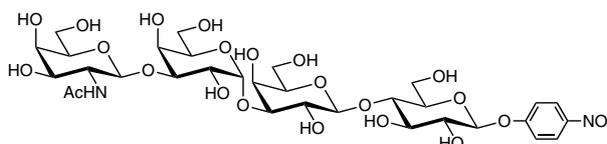
GalNAc β (1-3)Gal α (1-3)Gal β (1-4)Glc- β -pNP

$C_{32}H_{48}N_2O_{23} = 828.73$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

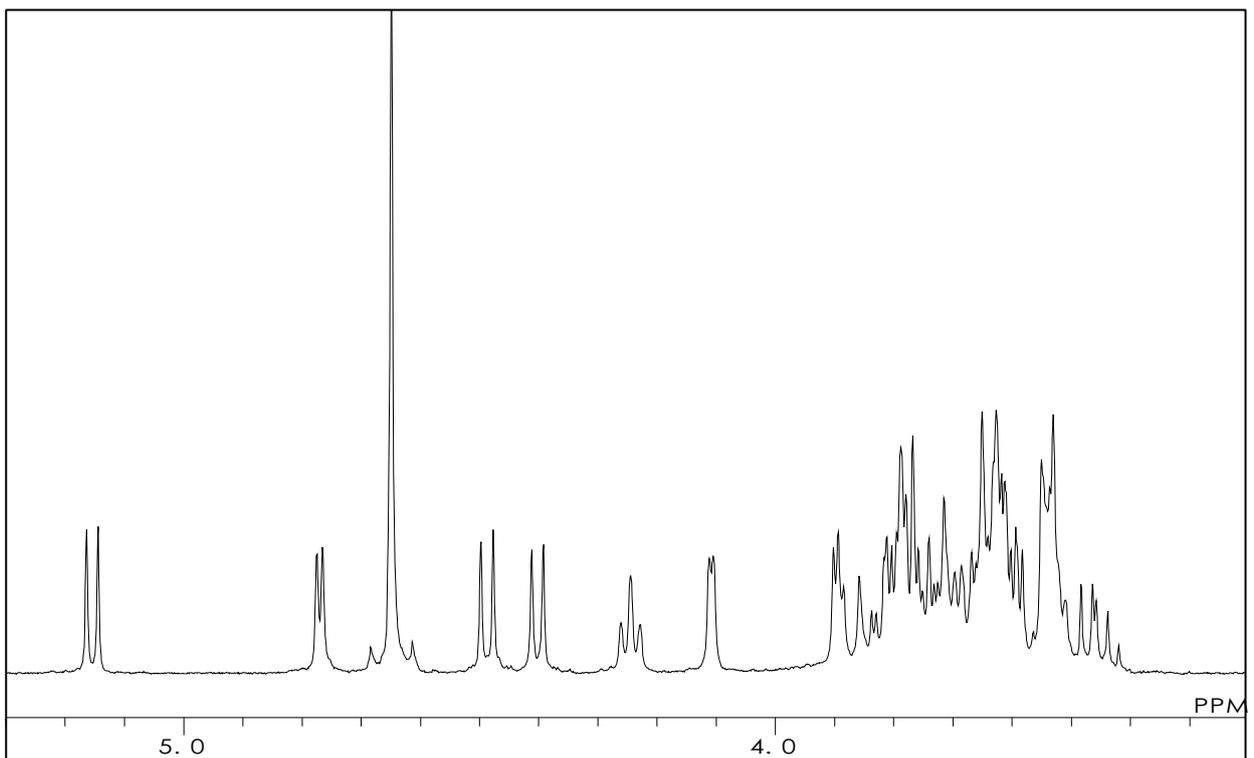
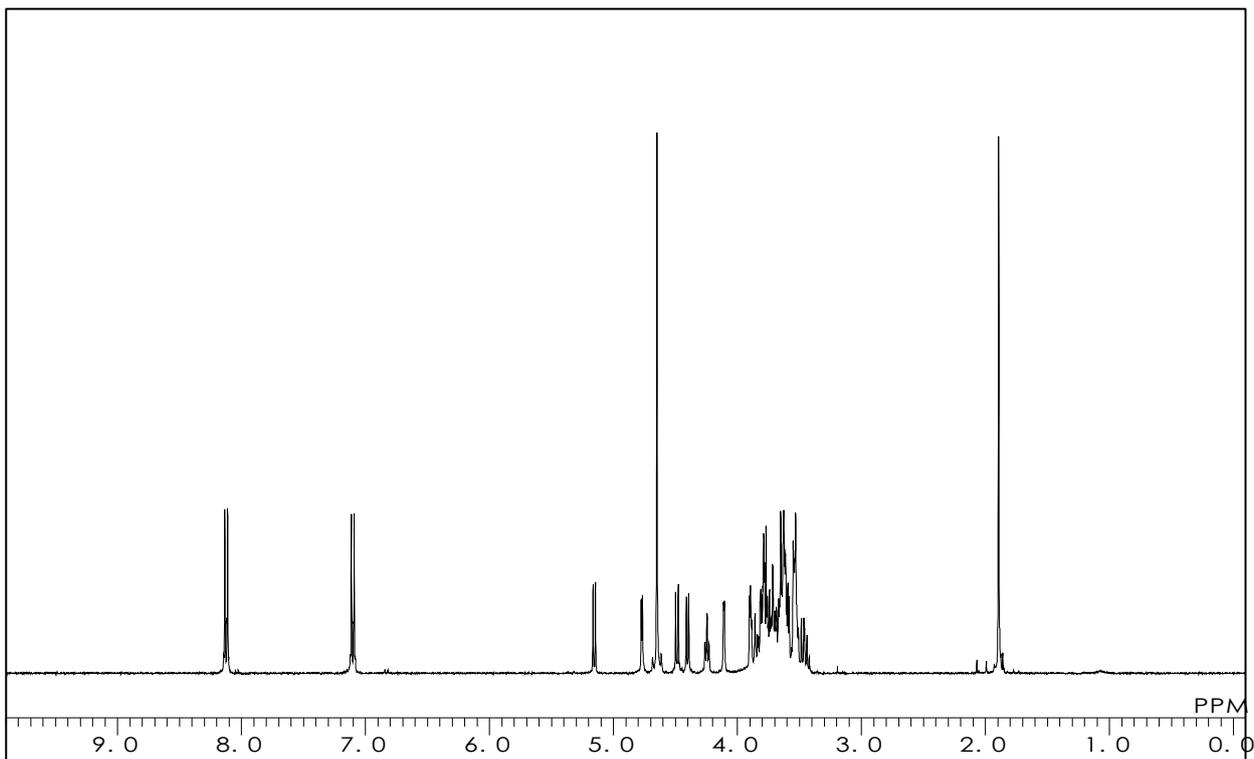
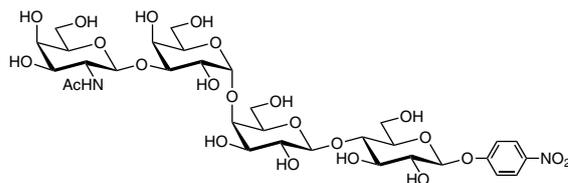
G0354

GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc- β -pNP

C₃₂H₄₈N₂O₂₃ = 828.73 [1134635-03-2]

Solvent : D₂O

Measured Temperature : 22.1 °C



G0372

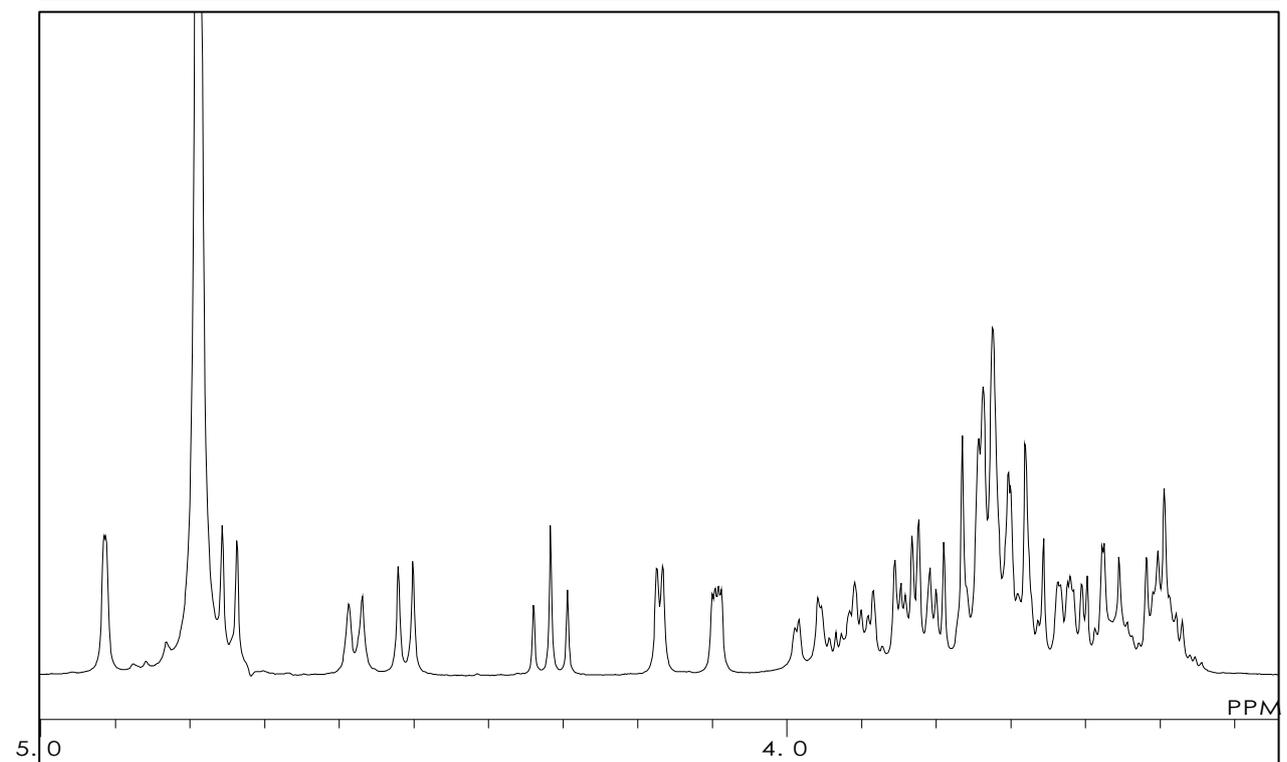
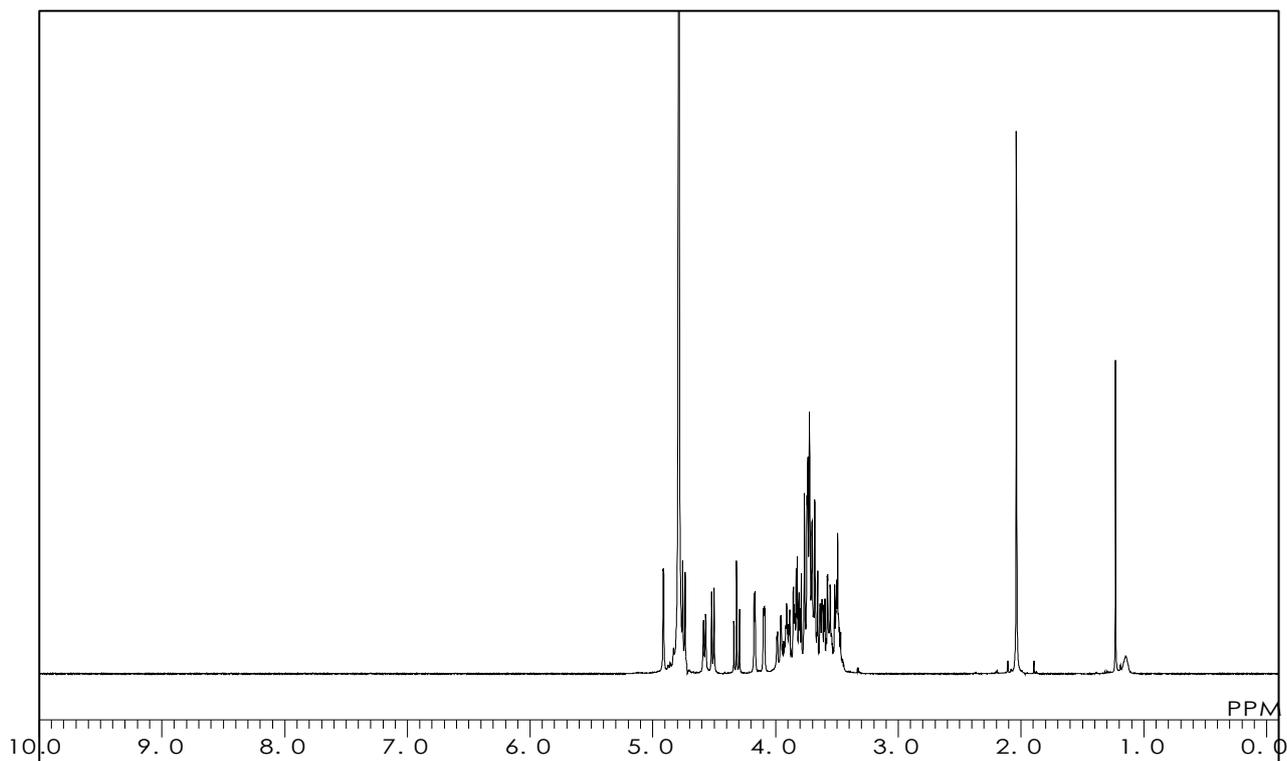
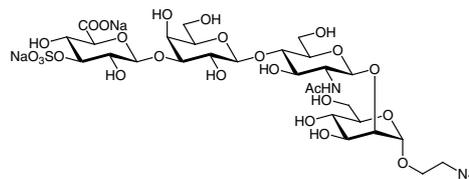
GlcA[3S]β(1-3)Galβ(1-4)GlcNAcβ(1-2)Man-α-ethylazide

$C_{28}H_{44}N_4Na_2O_{25}S = 914.70$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.1 °C

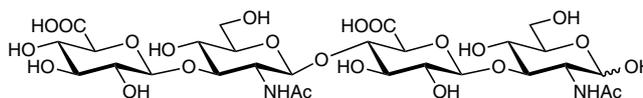


本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

H1284

Hyaluronate Tetrasaccharide

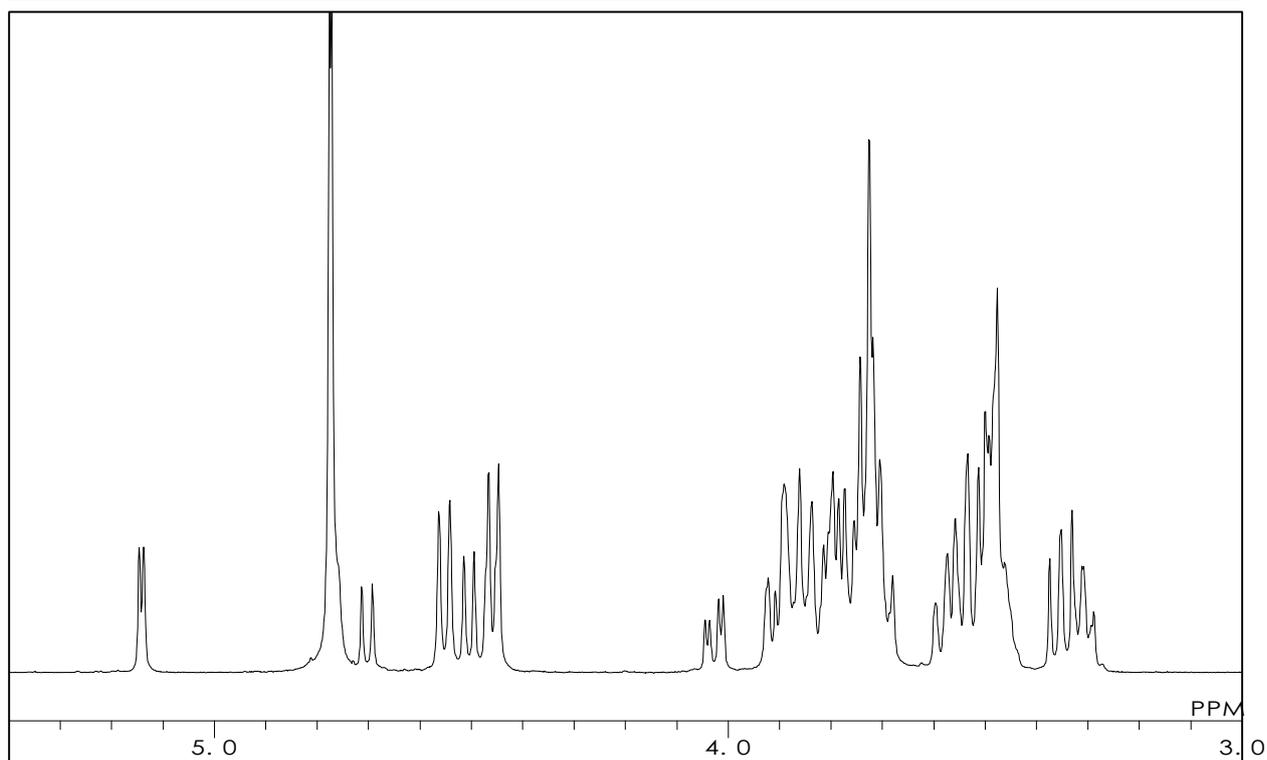
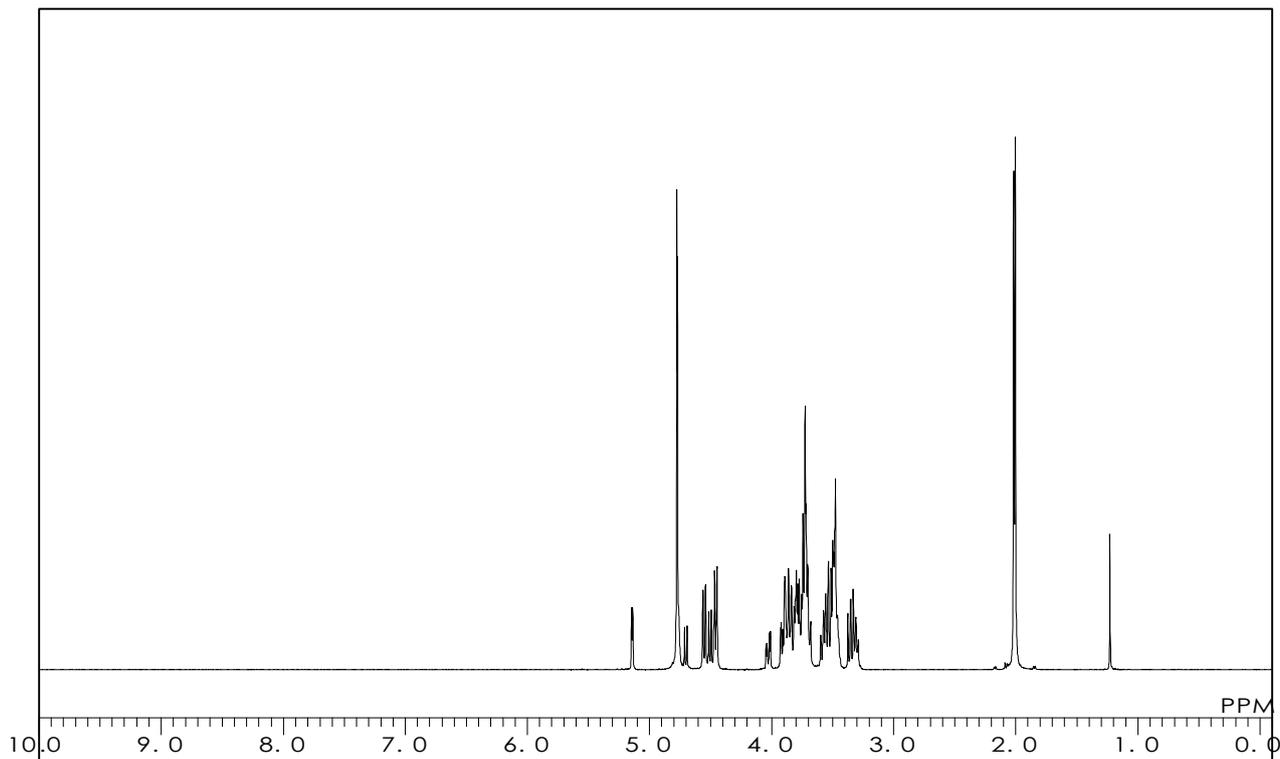
$C_{28}H_{44}N_2O_{23} = 776.65$ [57282-61-8]



Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.1°C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

L0237

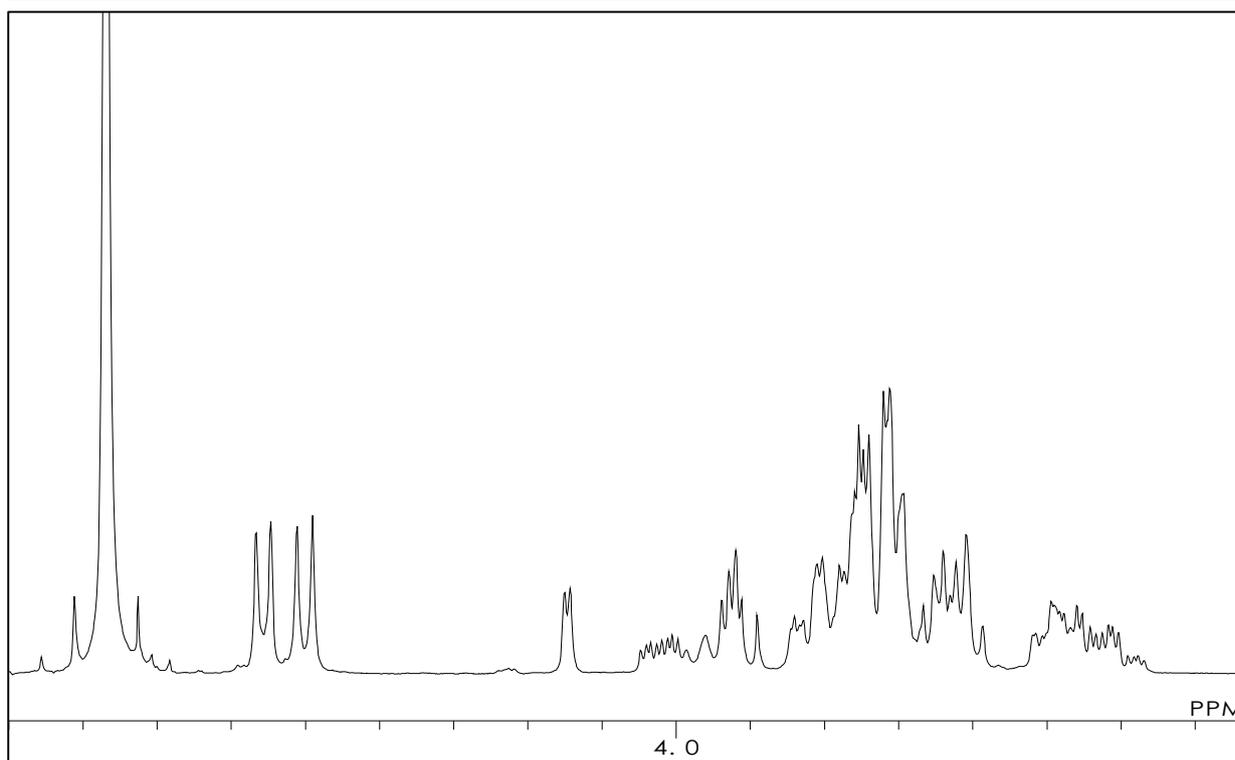
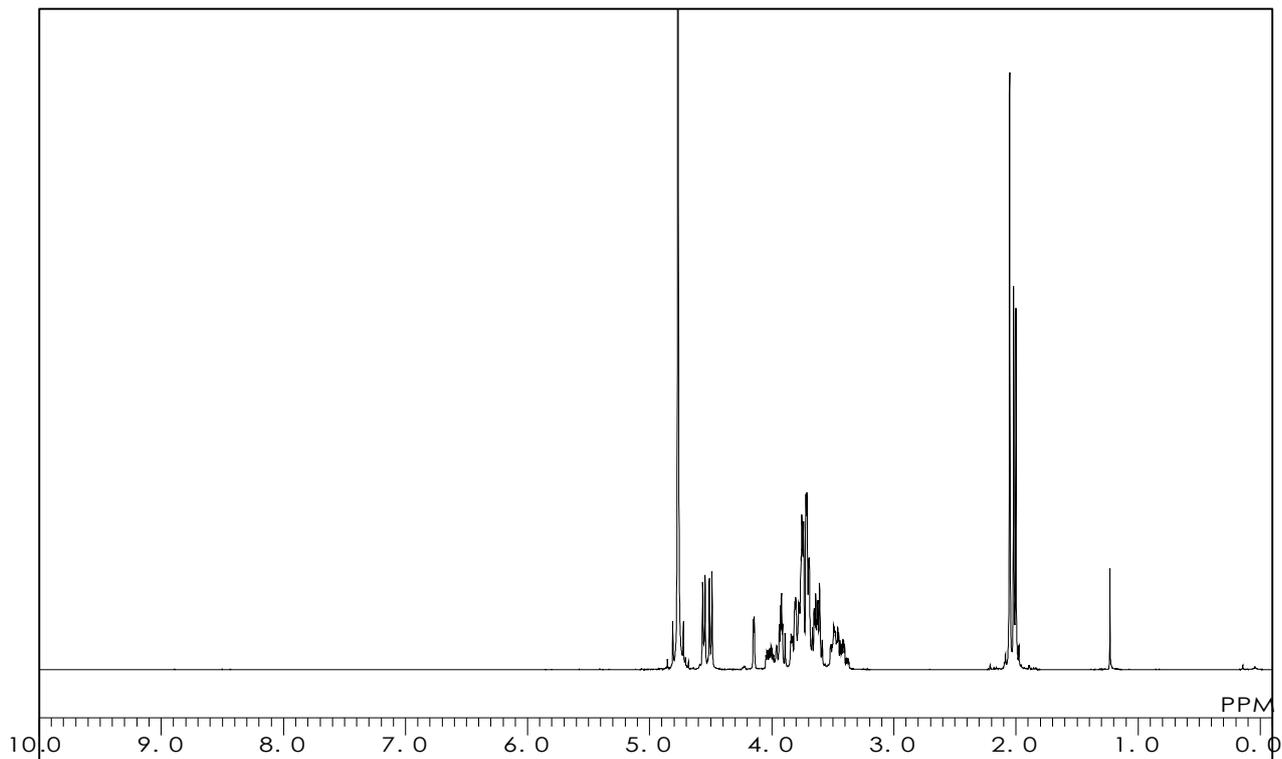
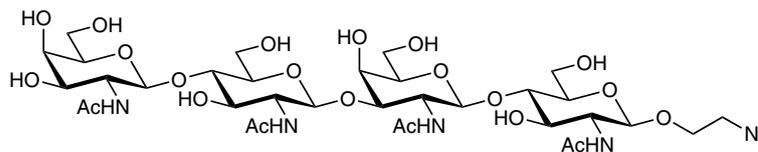
LacDiNAc Dimer Ethylazide

$C_{34}H_{57}N_7O_{21} = 899.86$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.4 °C

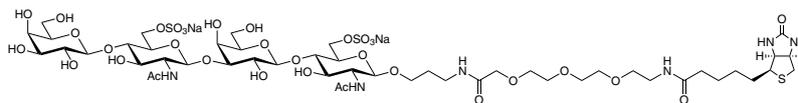


本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0516

L2-L2-β-PEG₃-biotin

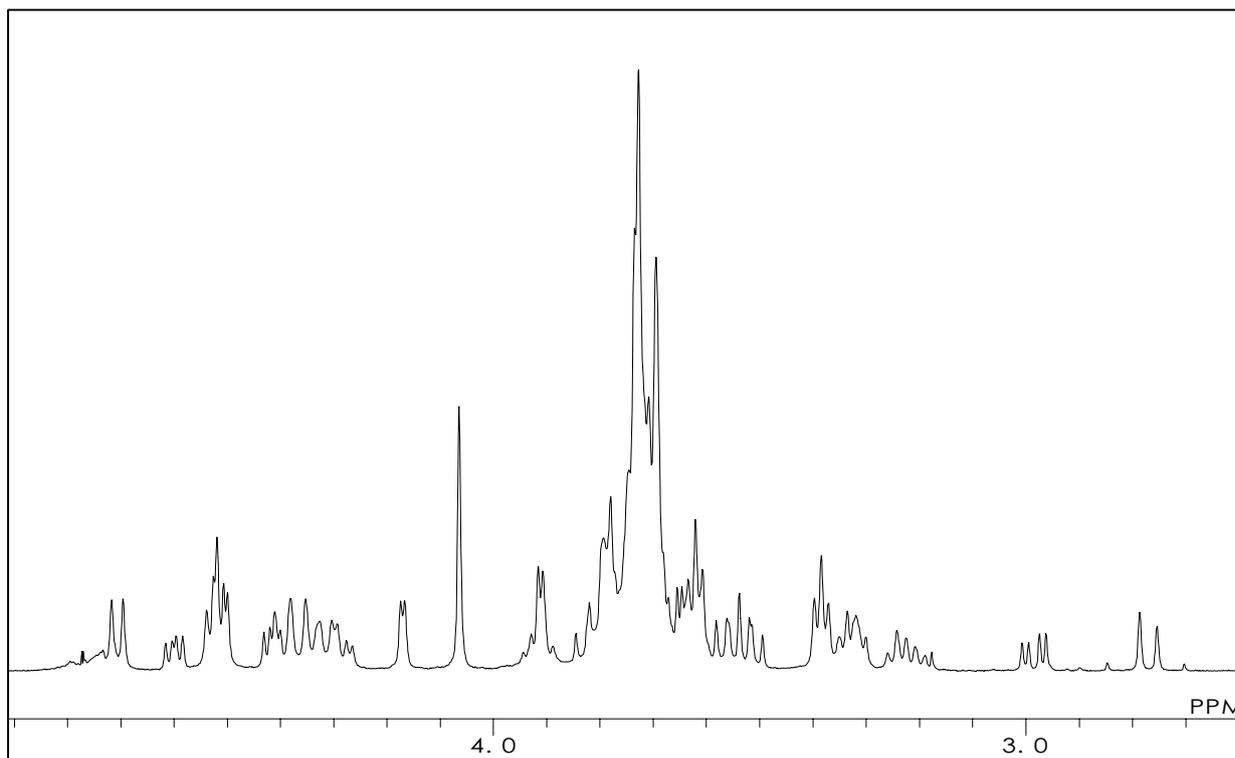
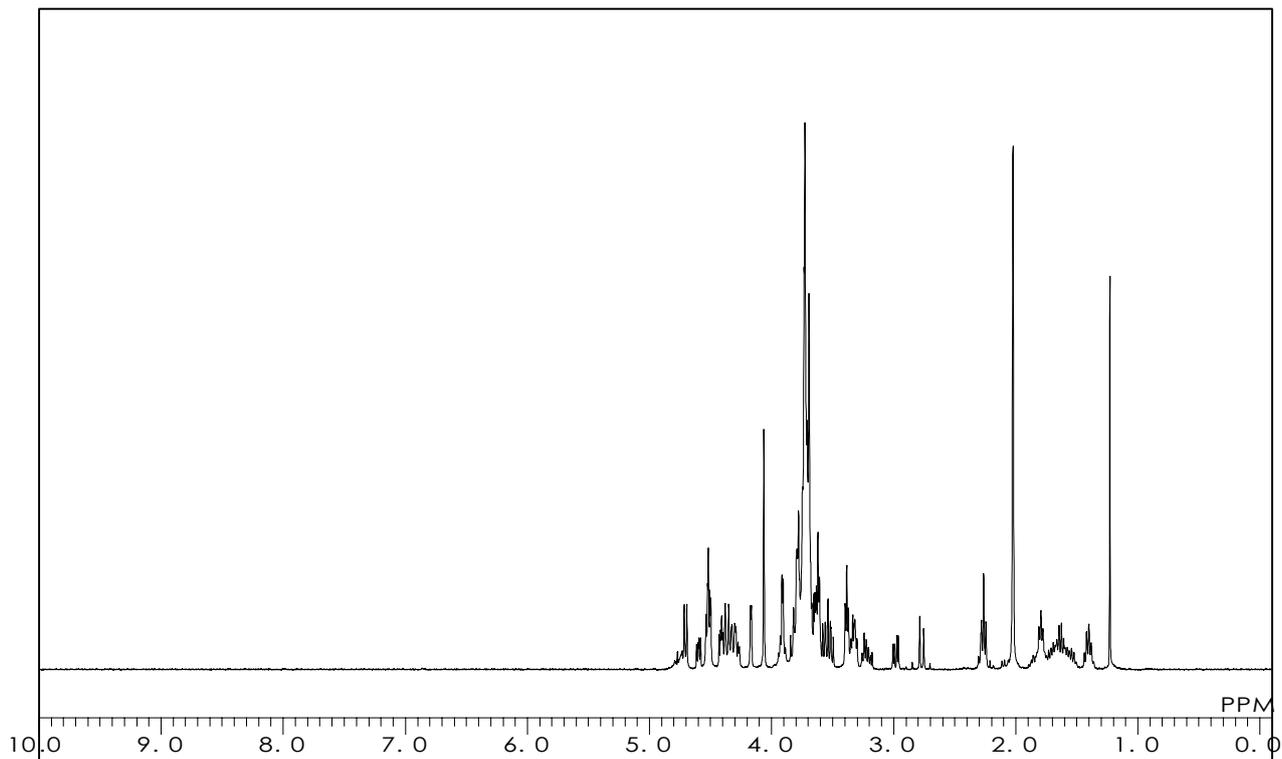
$C_{49}H_{82}N_6Na_2O_{33}S_3 = 1425.36$



Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

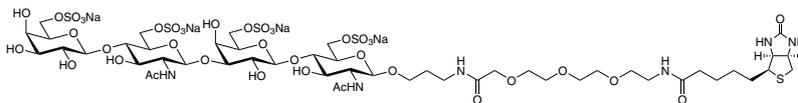
Measured Temperature : 24.3 °C



G0517

L4-L4-β-PEG₃-biotin

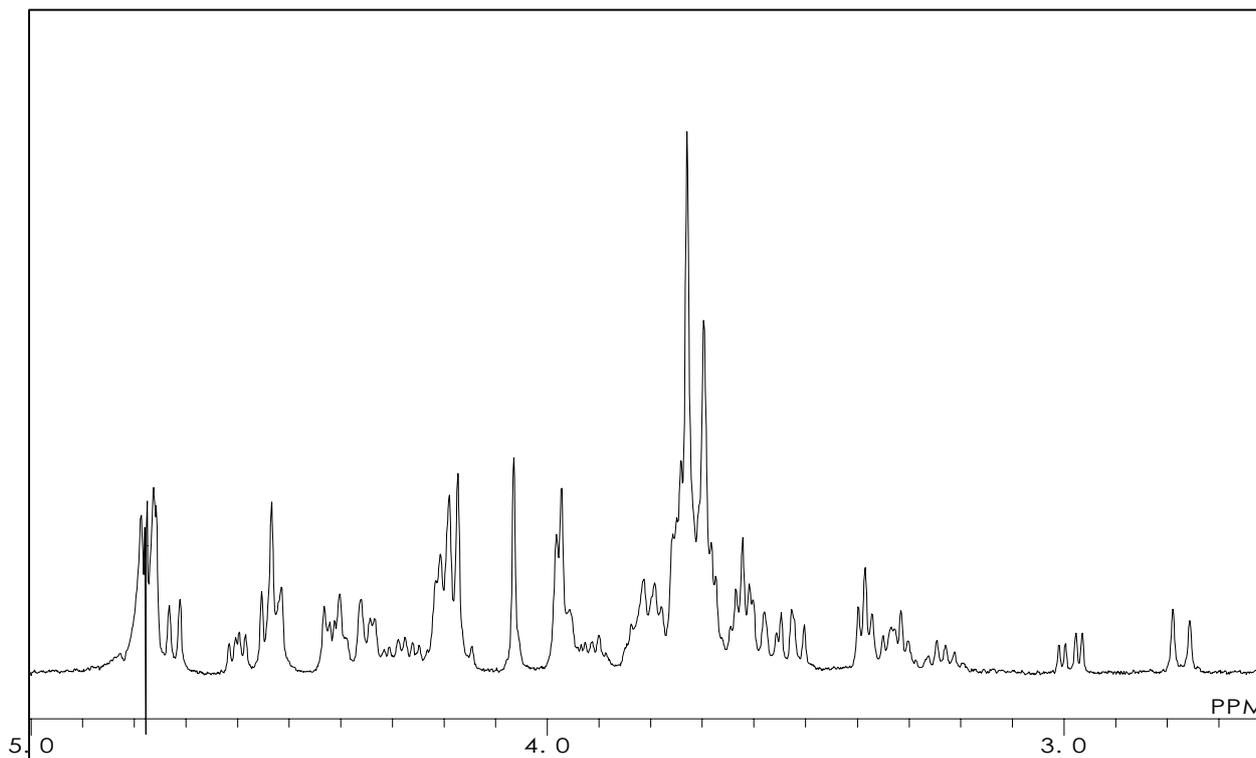
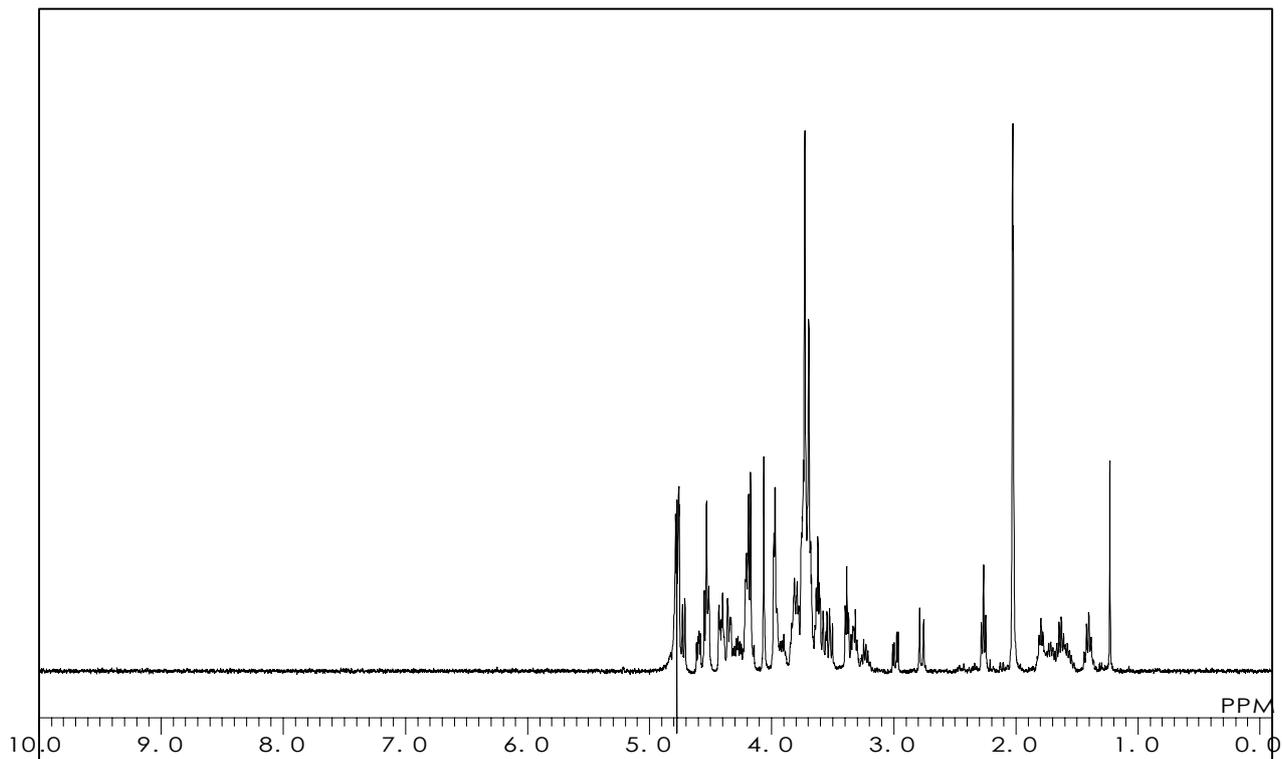
C₄₉H₈₀N₆Na₄O₃₉S₅ = 1629.44



Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N0971

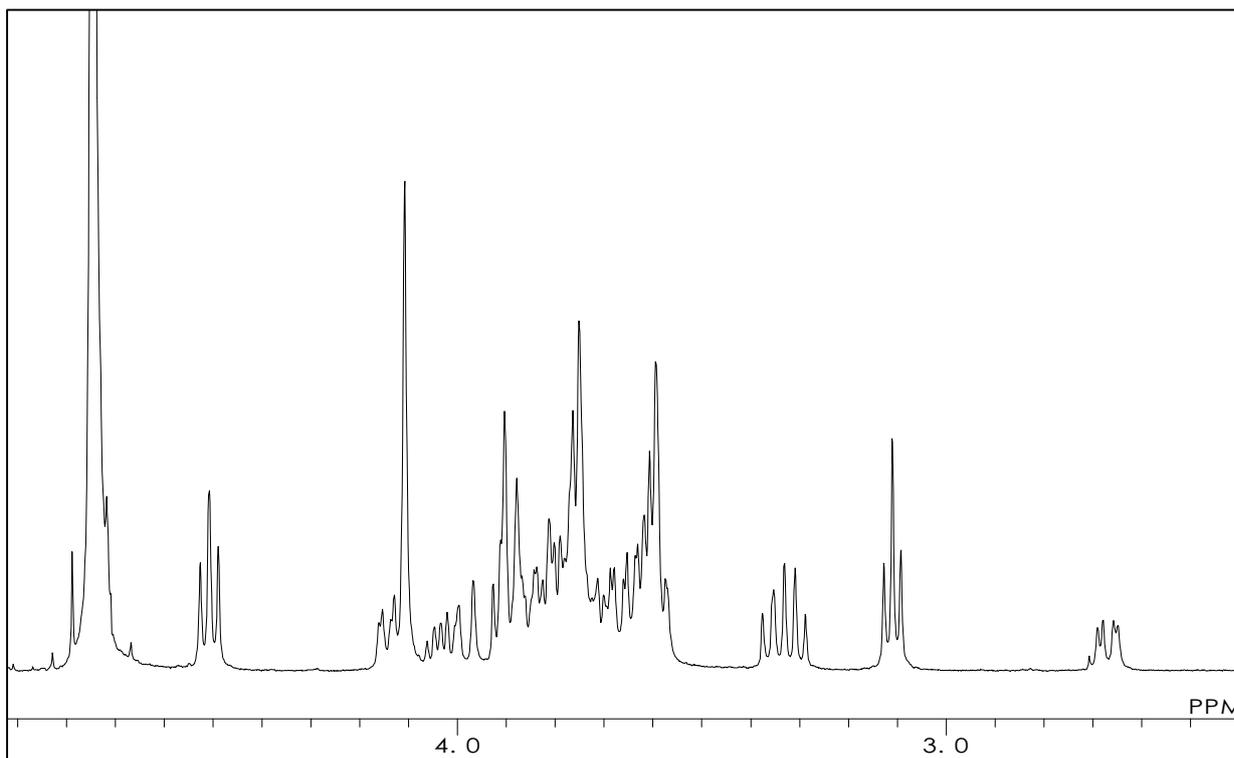
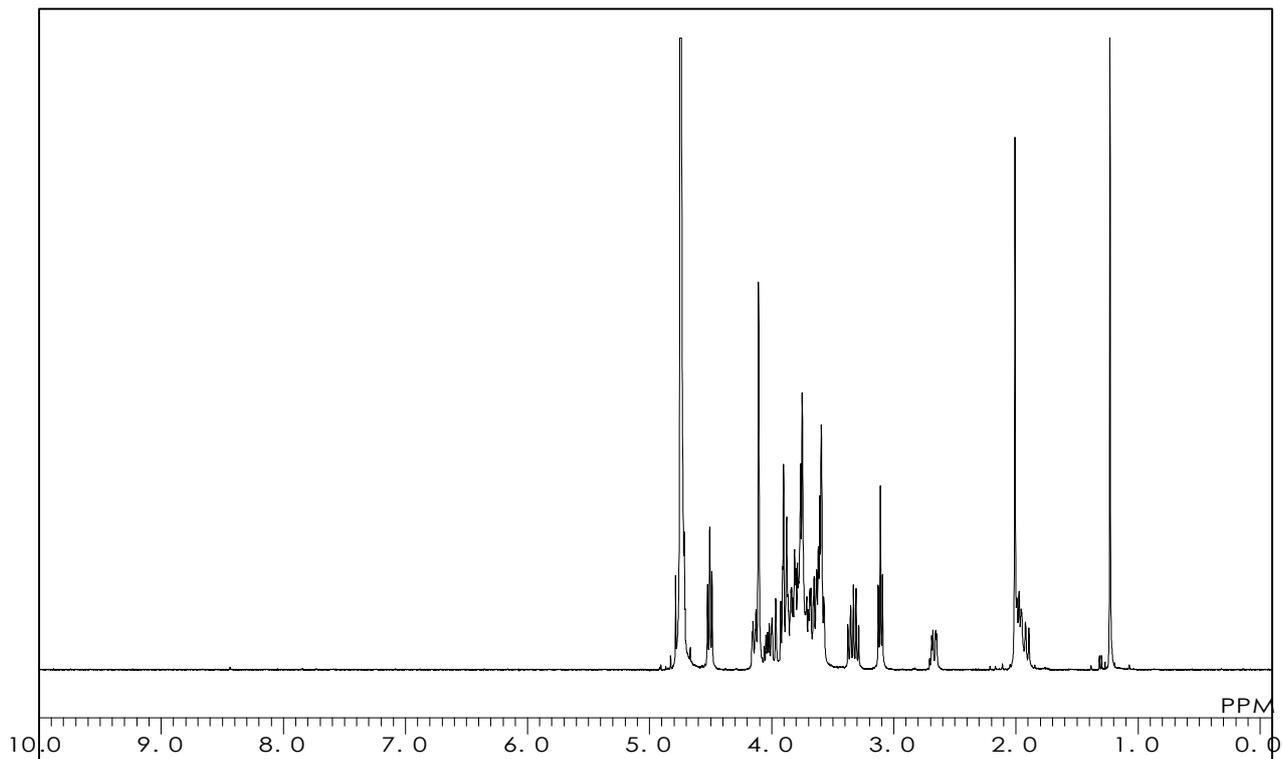
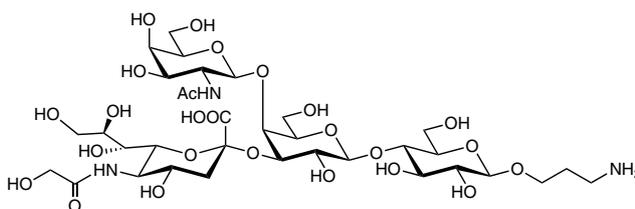
Neu5Gc α (2-3)[GalNAc β (1-4)]Gal β (1-4)Glc- β -propylamine

$C_{34}H_{59}N_3O_{25} = 909.84$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 26.7 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

T2910

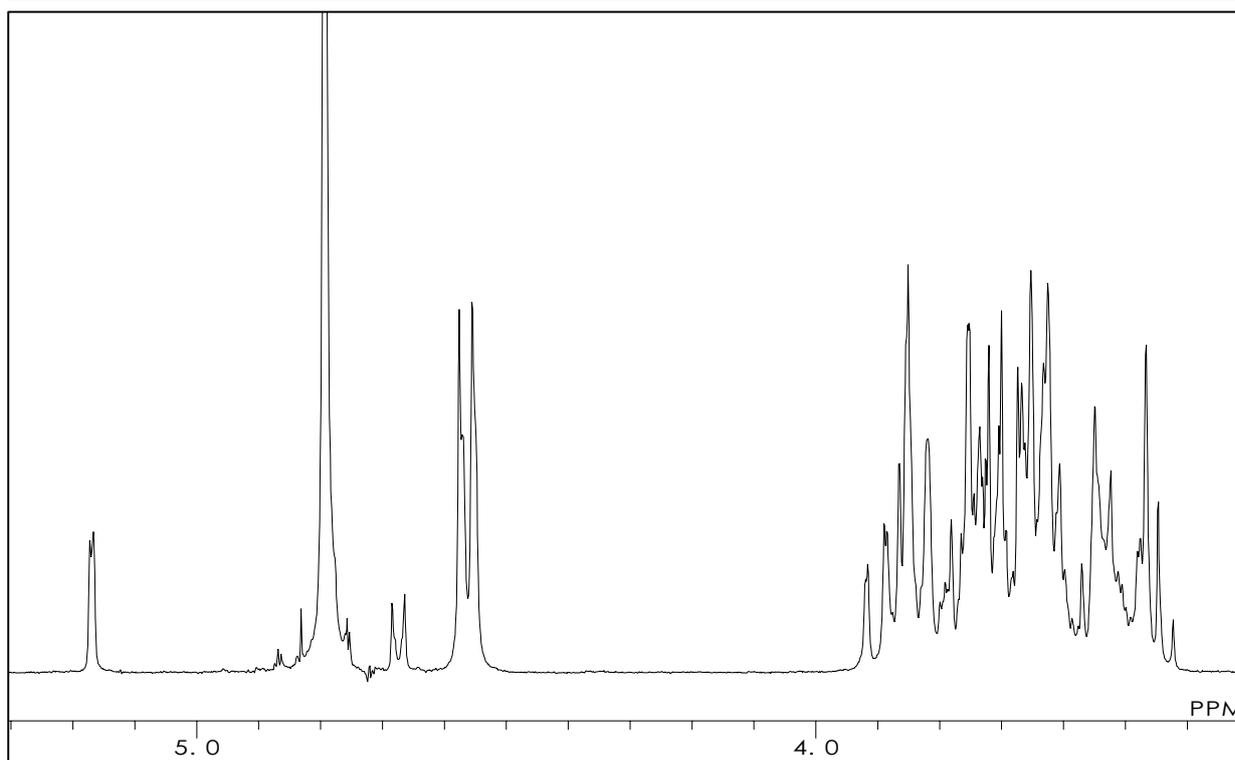
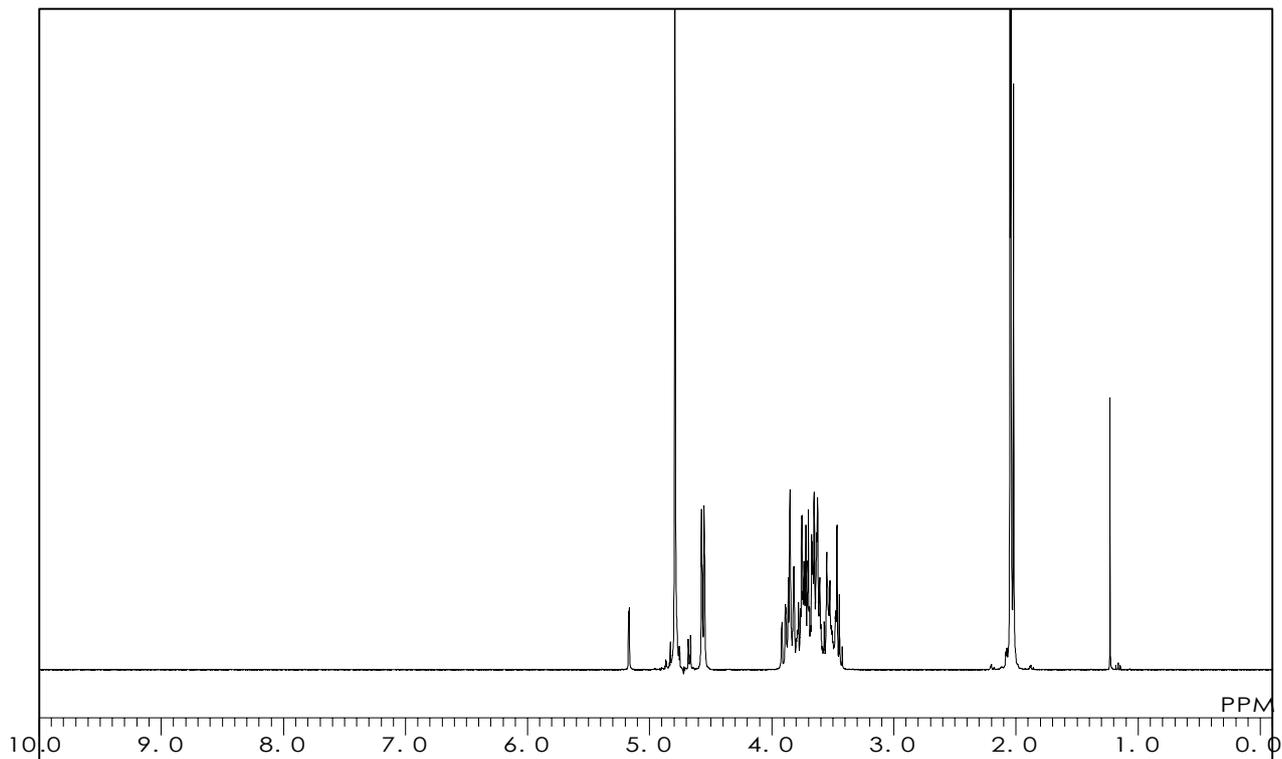
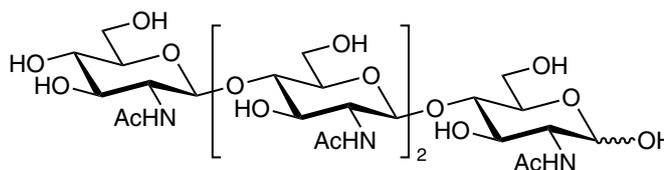
N,N',N'',N'''-Tetraacetylchitotetraose

$C_{32}H_{54}N_4O_{21} = 830.79$ [2706-65-2]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

C2644

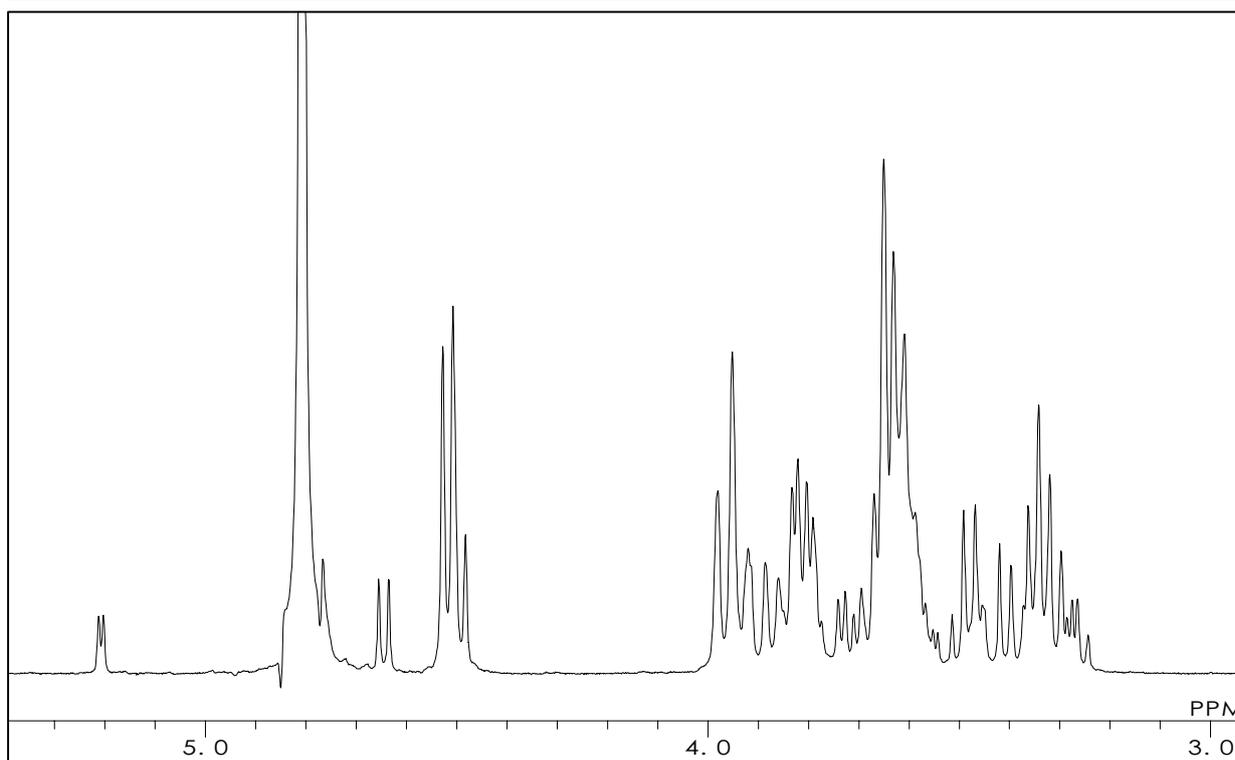
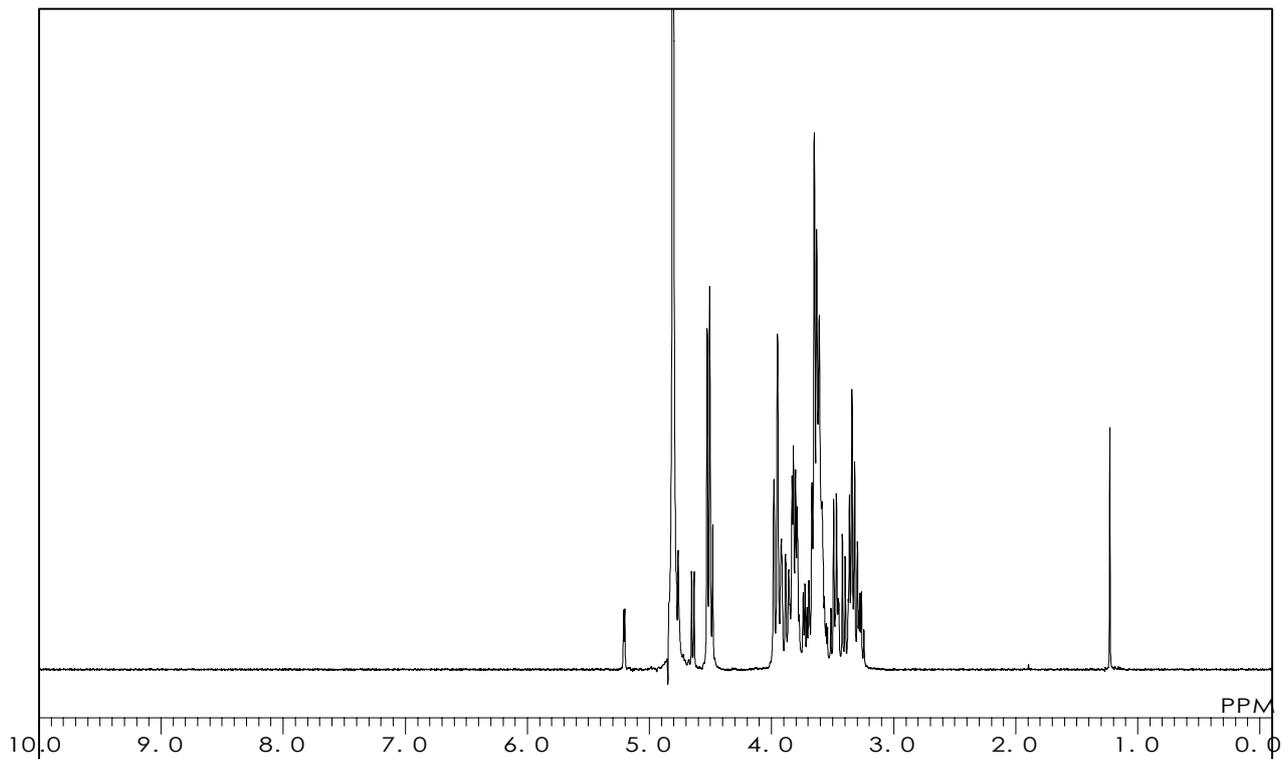
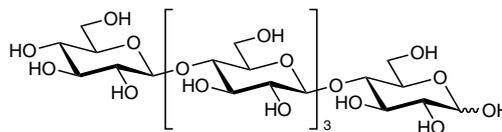
Cellopentaose

$C_{30}H_{52}O_{26} = 828.72$ [2240-27-9]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 20.9 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

D4217

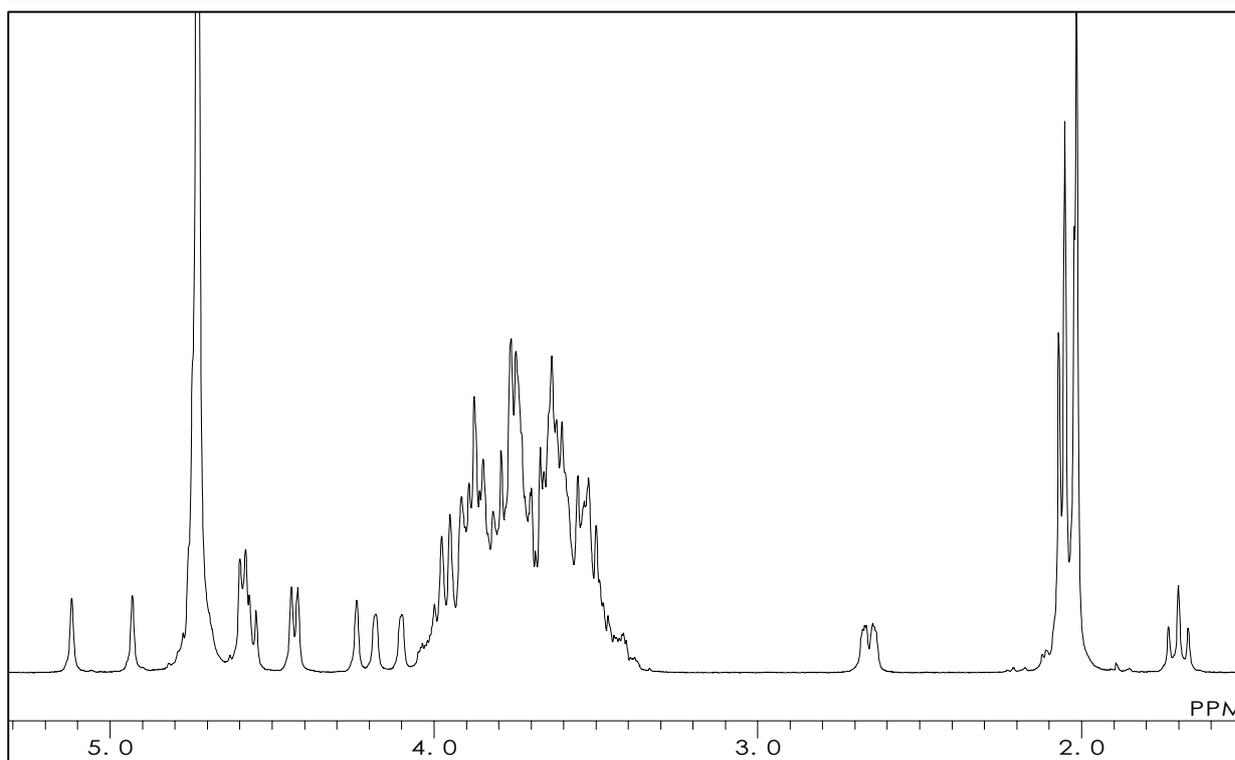
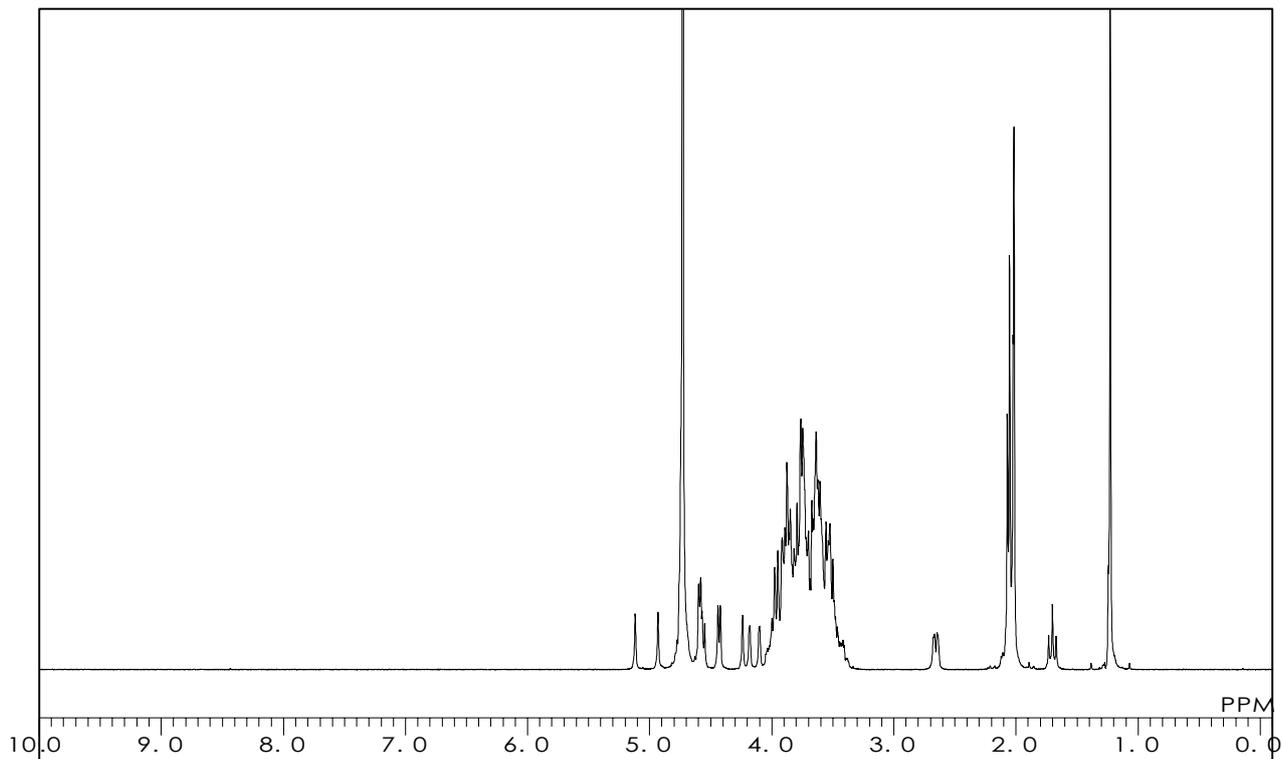
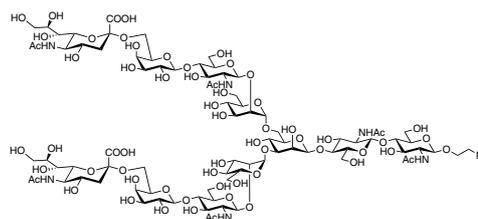
Disialylnonasaccharide-β-ethylazide

$C_{86}H_{141}N_9O_{62} = 2293.08$ [1621001-68-0]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 27.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N0913

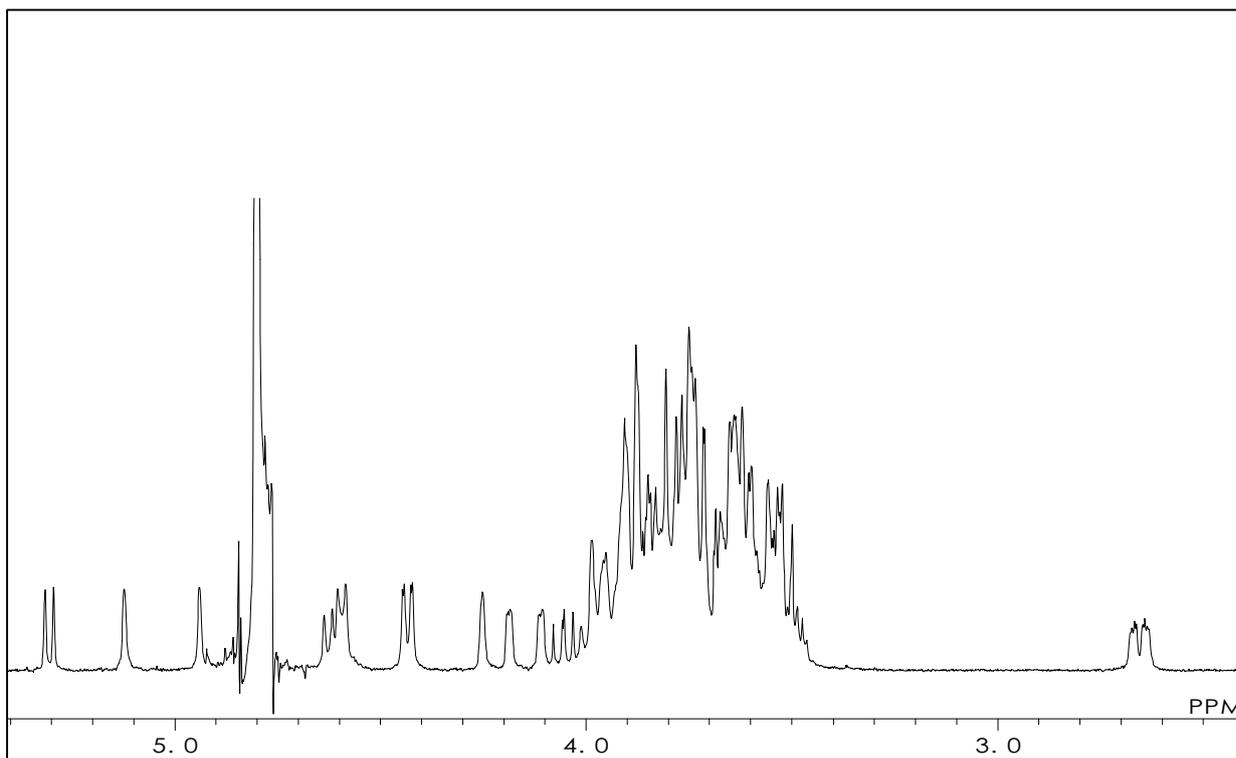
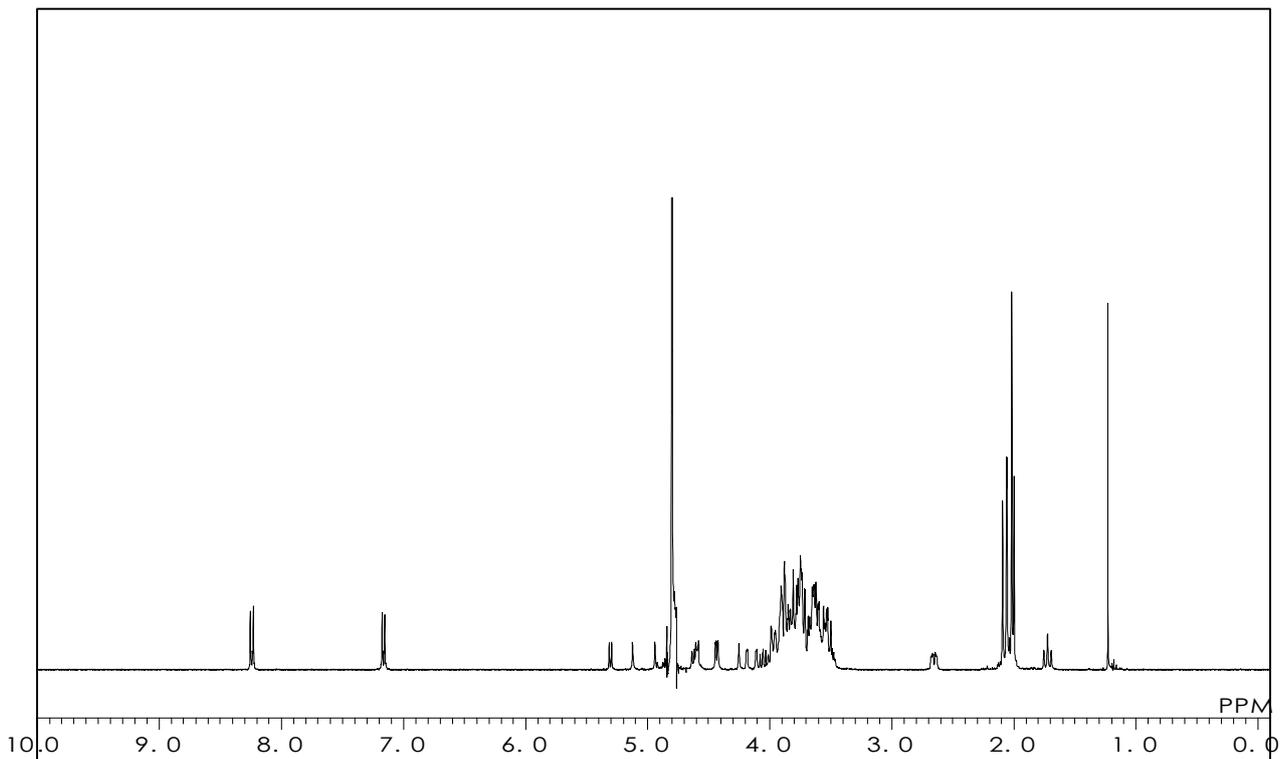
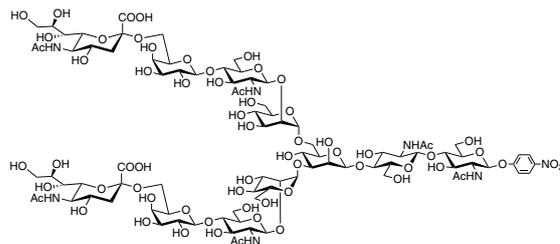
DisialylInonasaccharide-β-pNP

C₉₀H₁₄₁N₇O₆₄ = 2345.10 [1408055-26-4]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.4 °C



D4065

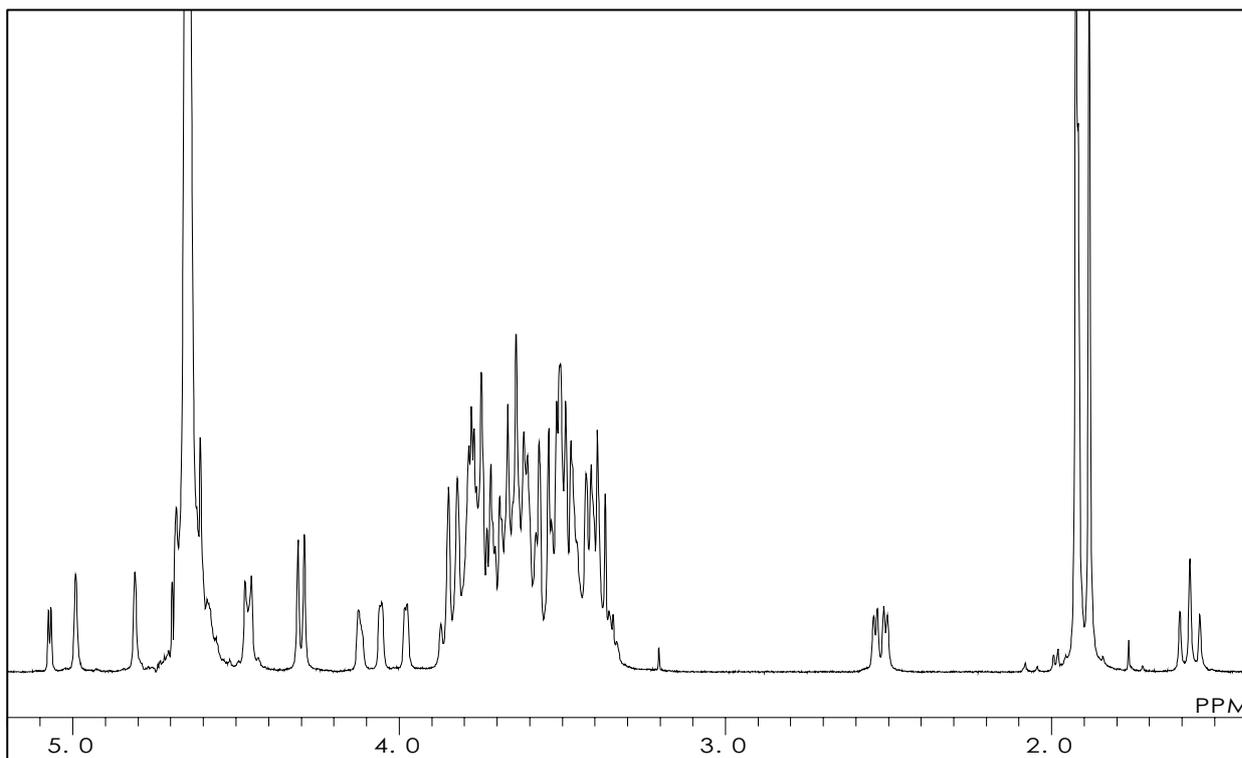
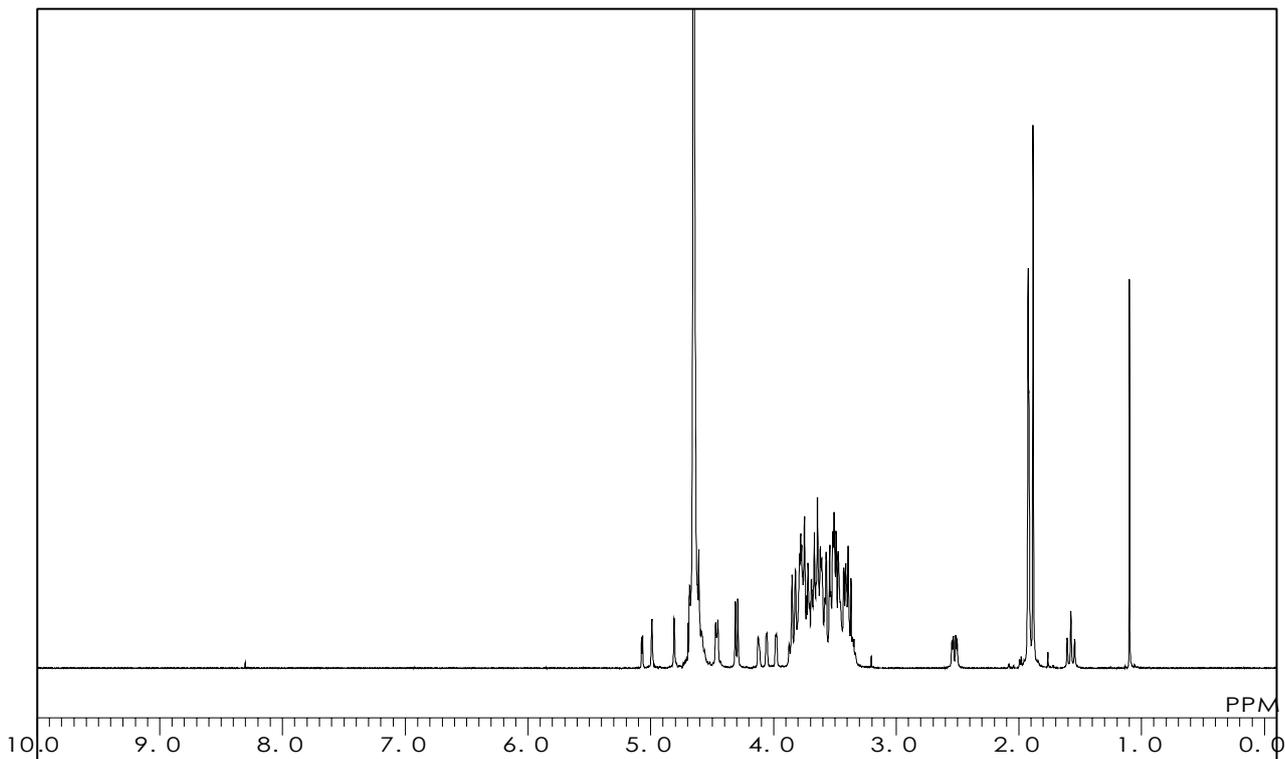
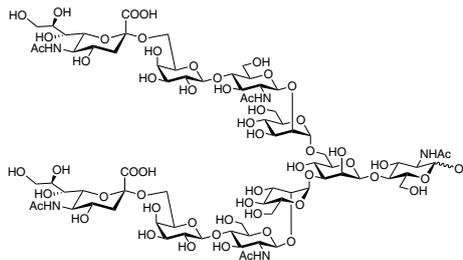
Disialyloctasaccharide

$C_{76}H_{125}N_5O_{57} = 2020.81$ [58902-60-6]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

F0584

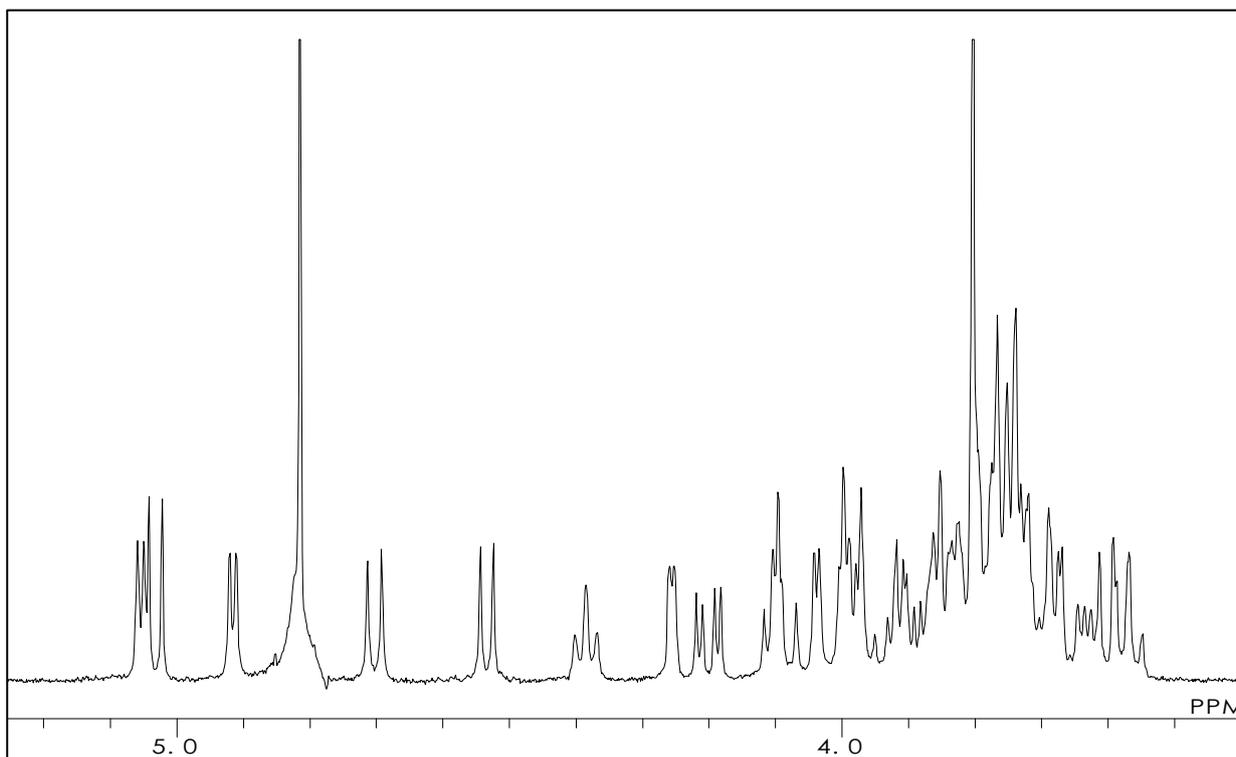
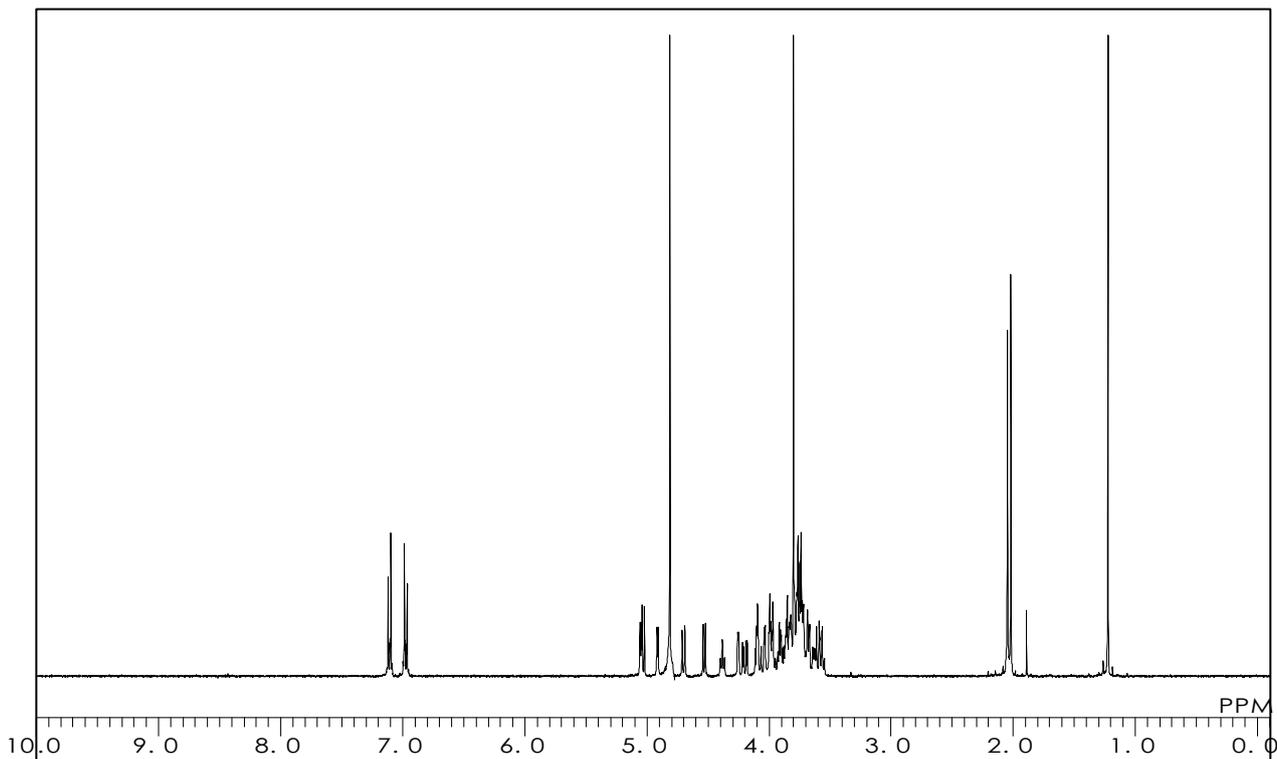
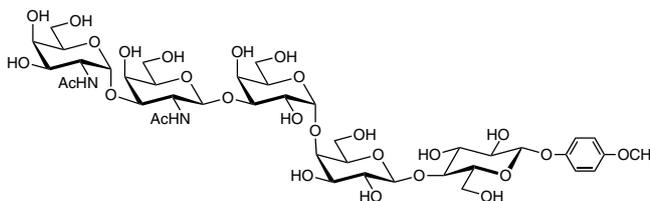
Forssman Pentose MP Glycoside

$C_{41}N_6N_2O_{27} = 1016.95$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 20.1 °C



G0490

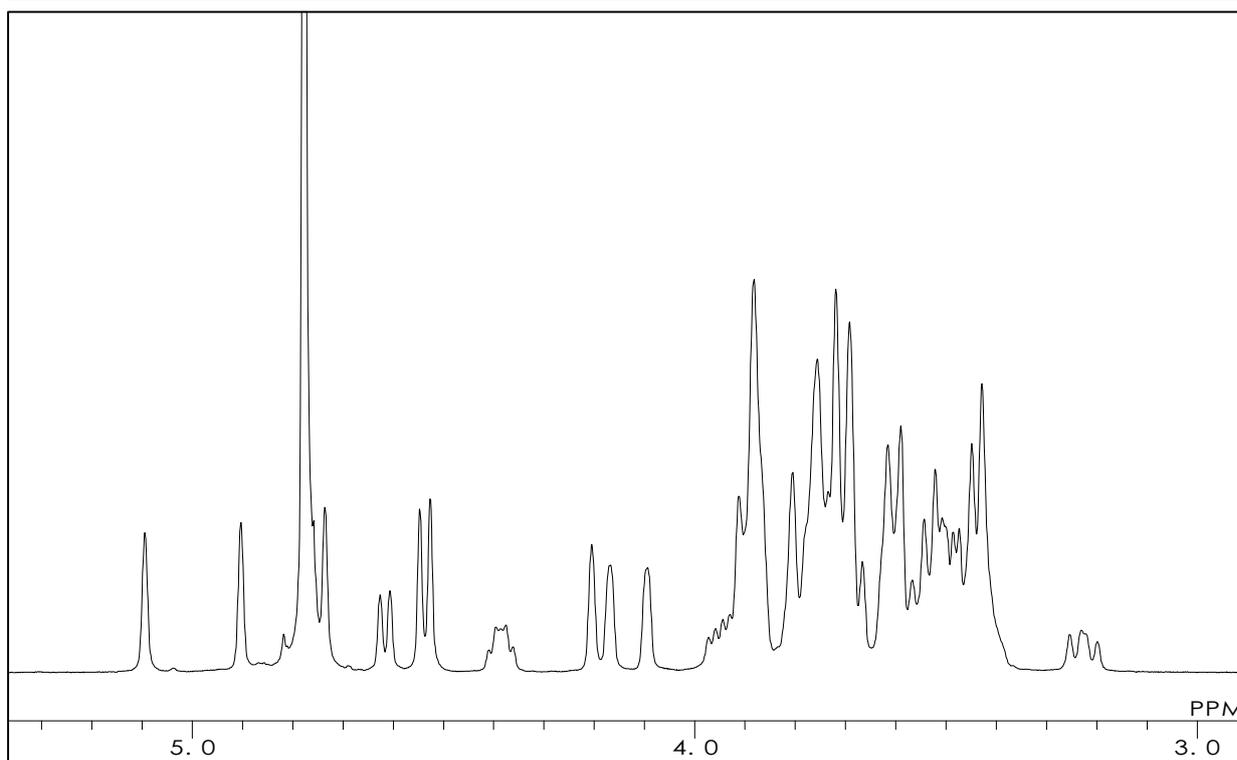
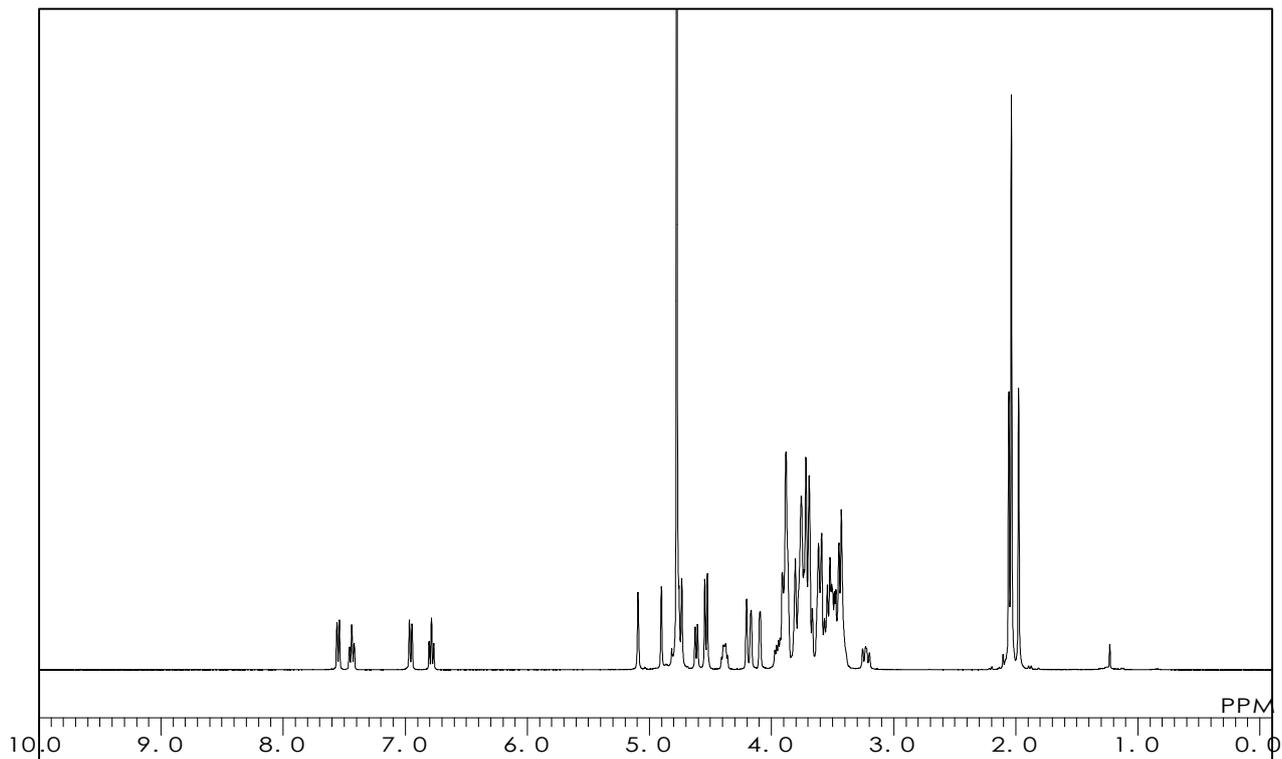
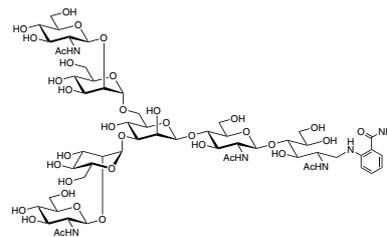
GO 2AB

$C_{57}H_{92}N_6O_{36} = 1437.37$ [959159-21-8]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.4 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0484

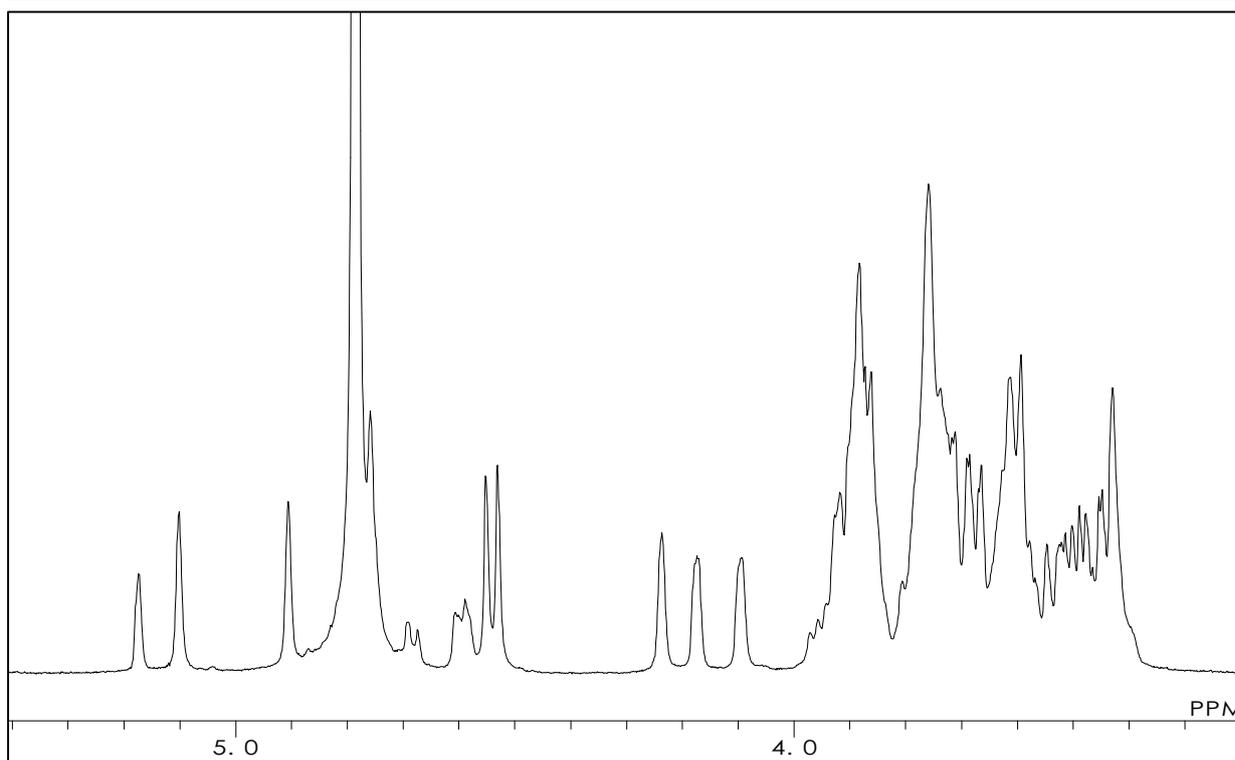
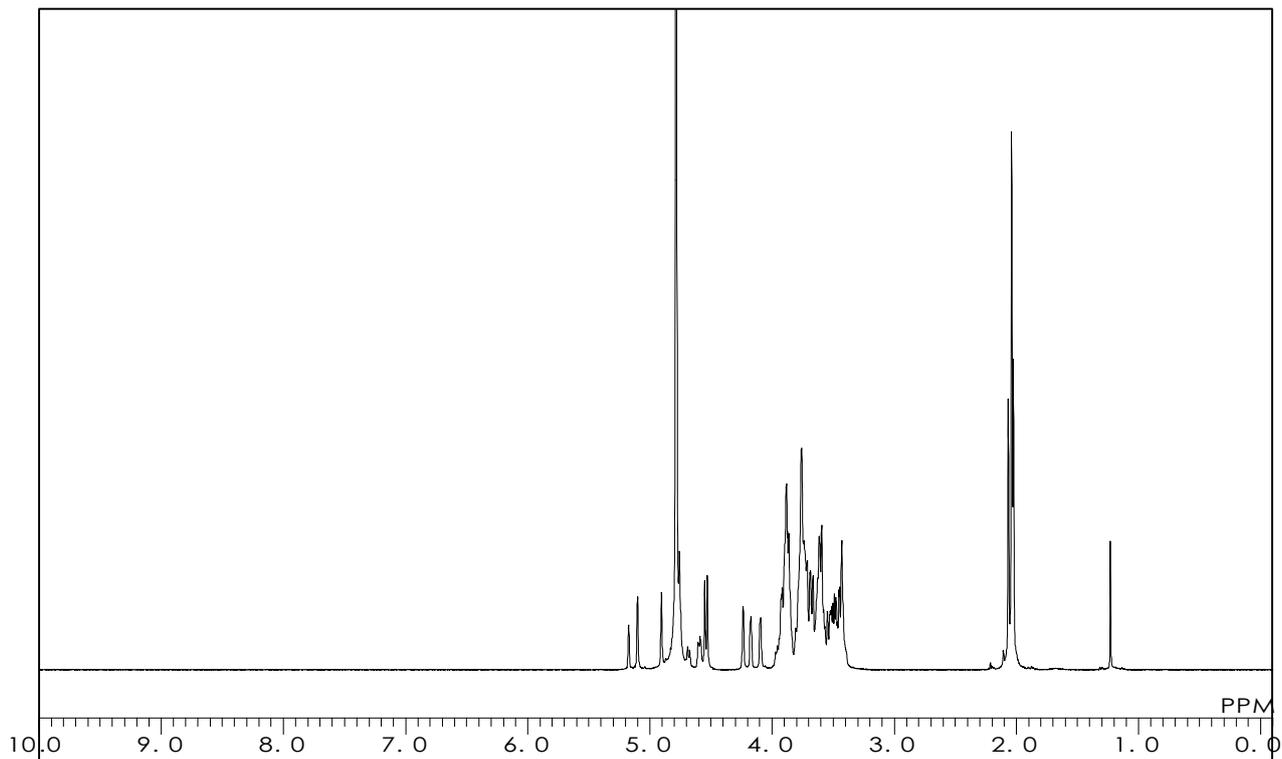
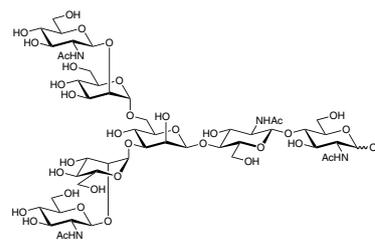
G0 Glycan

$C_{50}H_{84}N_4O_{36} = 1317.21$ [84808-02-6]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.9 °C



G0530

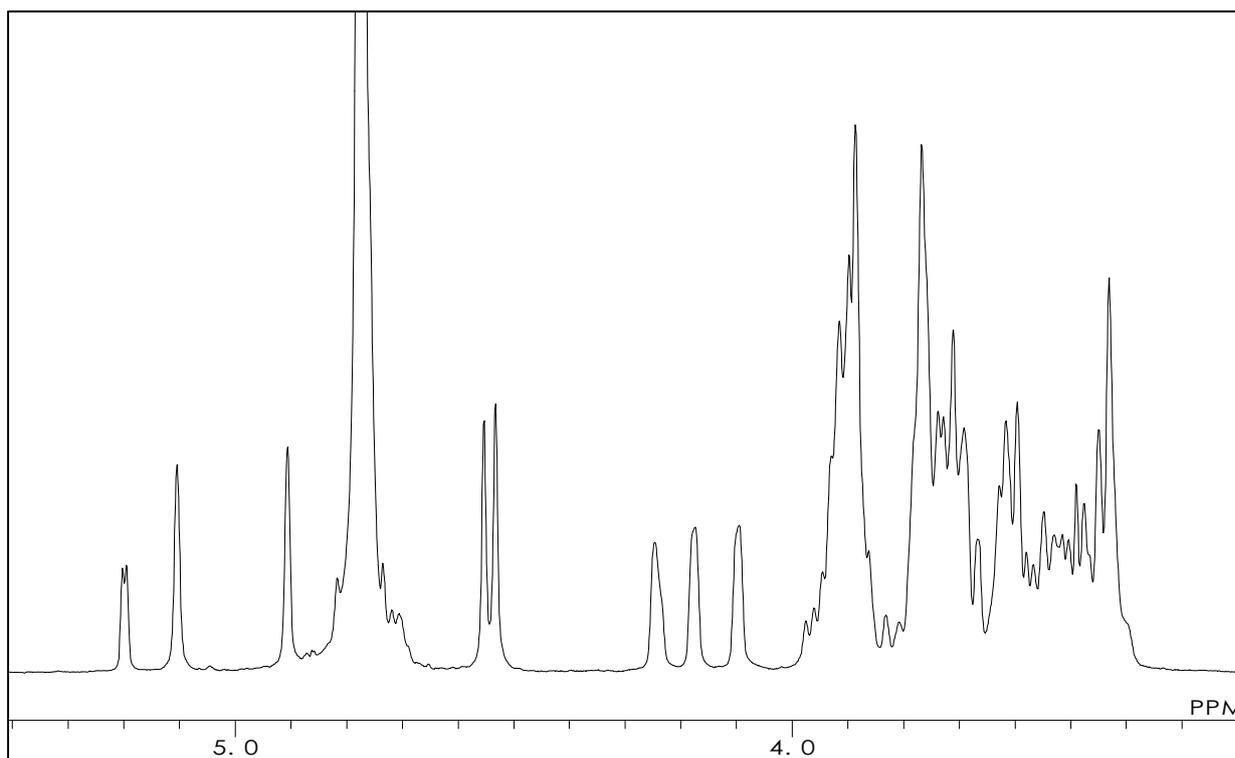
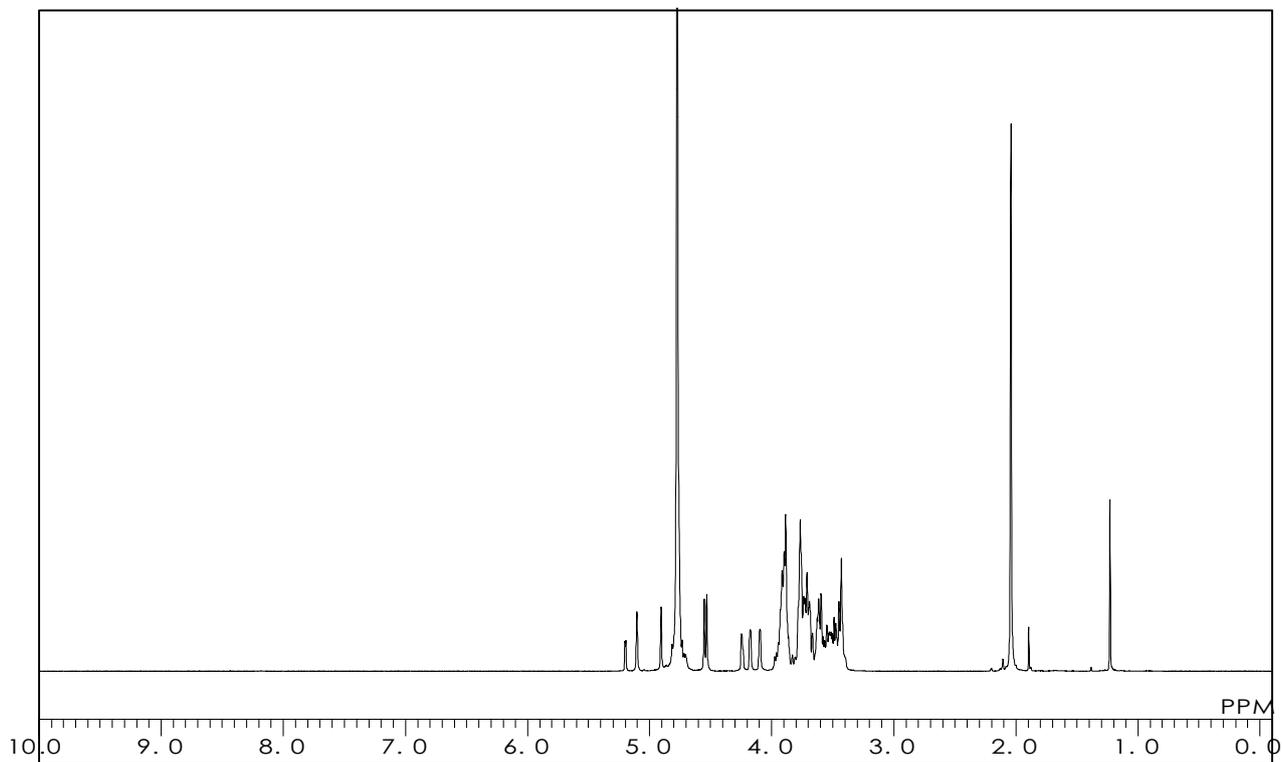
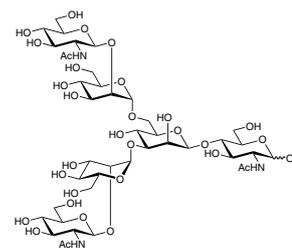
G0 glycan (GN₁ type)

C₄₂H₇₁N₃O₃₁ = 1114.02 [61687-27-2]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0470

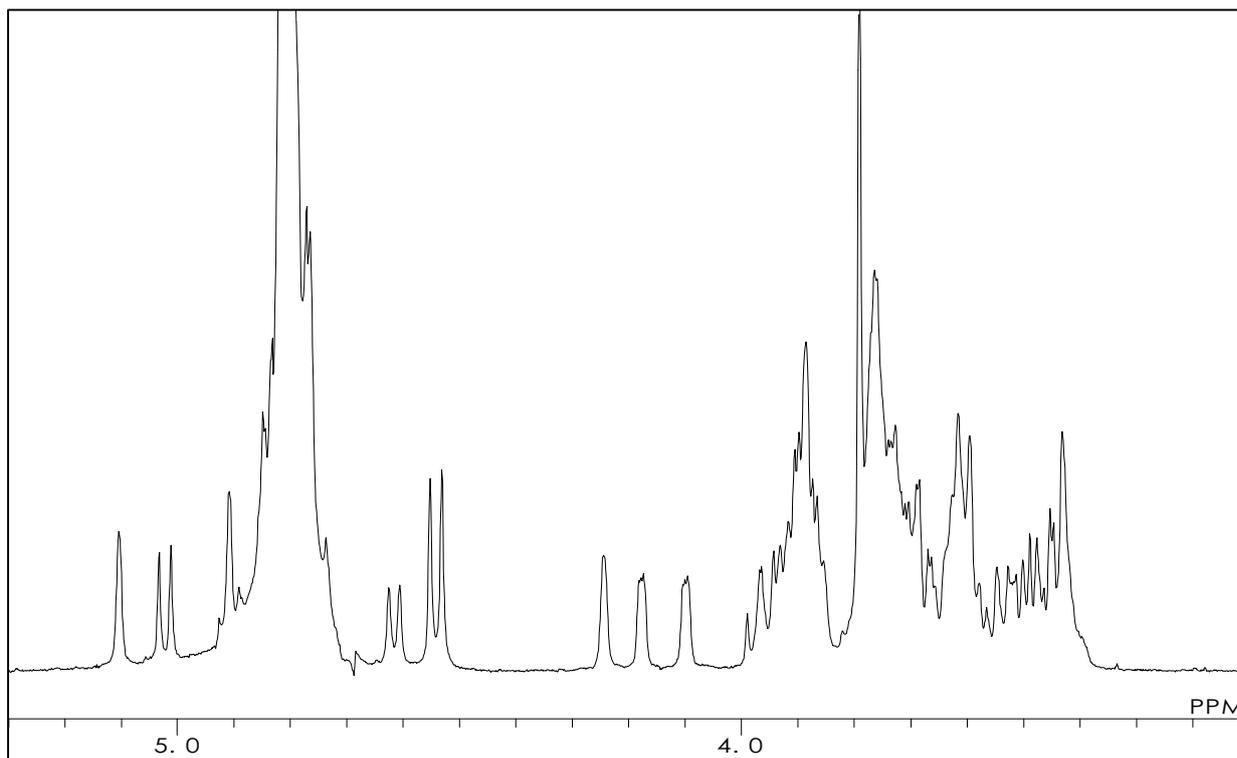
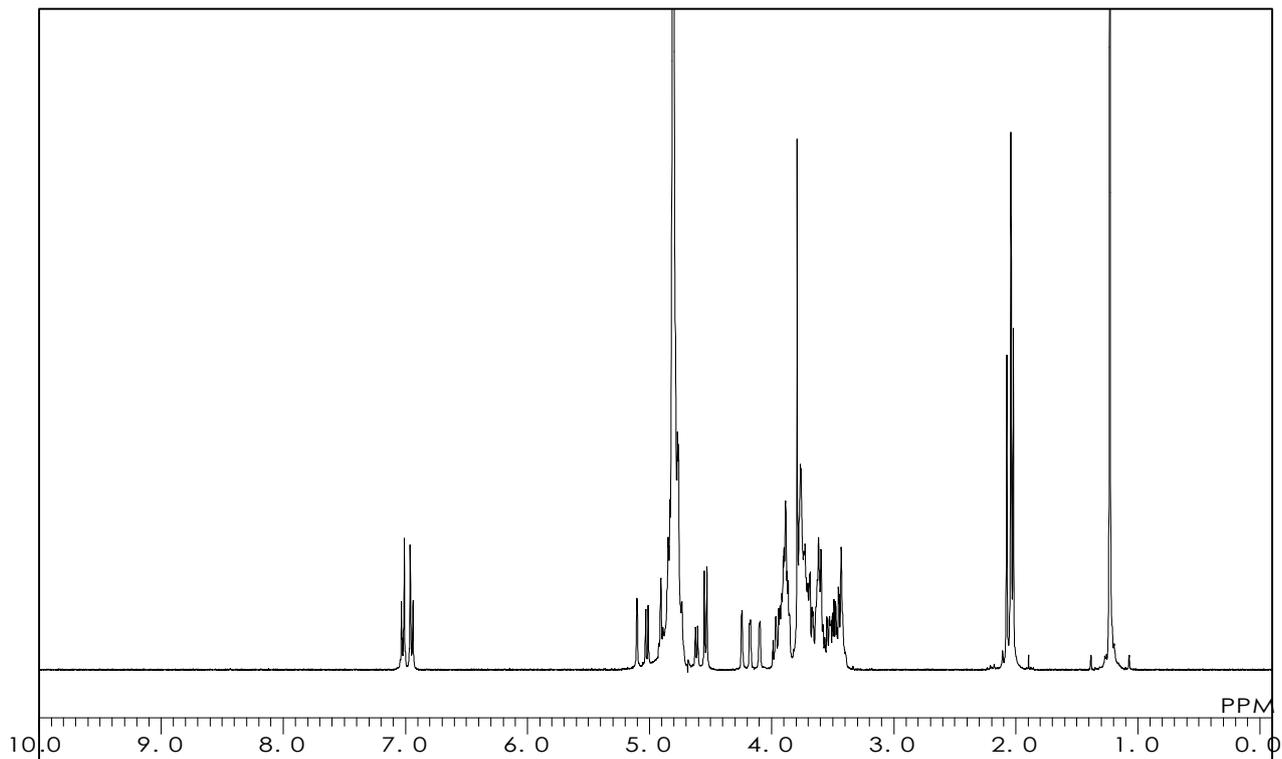
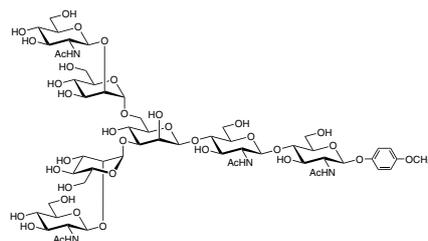
G0 MP Glycoside

$C_{57}H_{90}N_4O_{37} = 1423.34$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.2 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0491

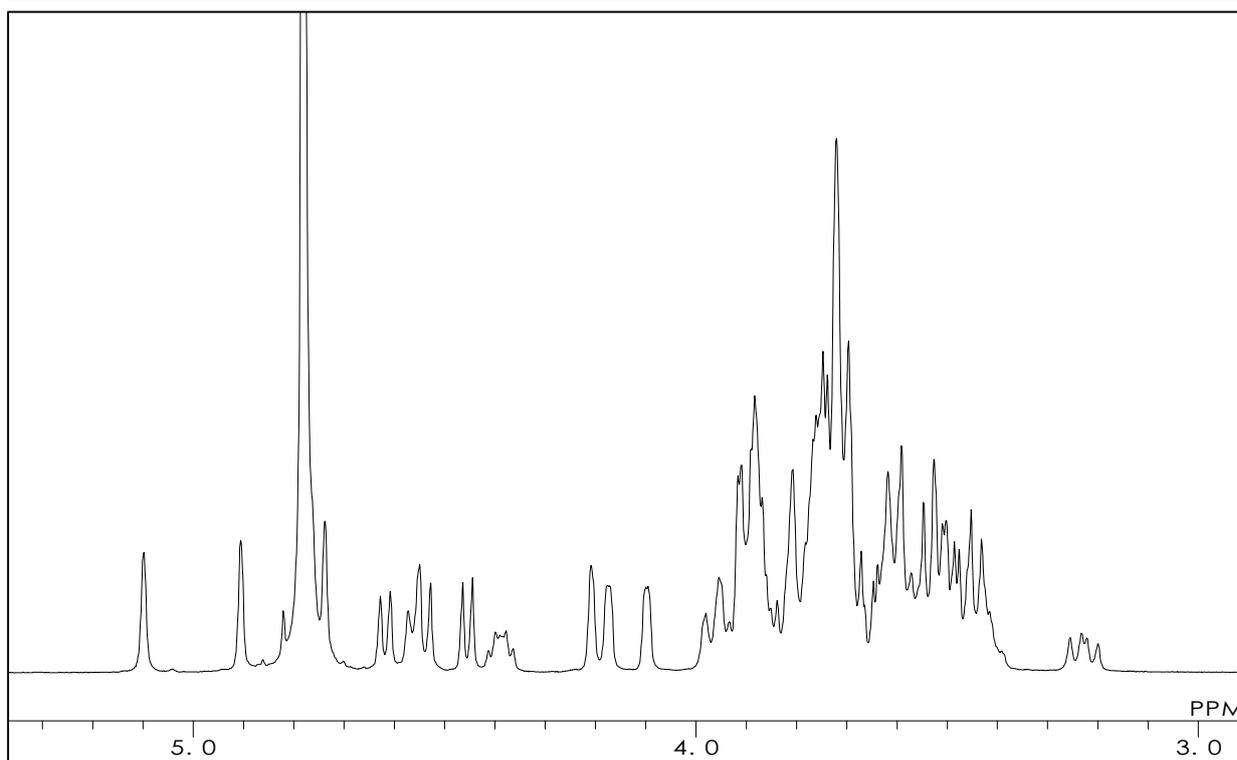
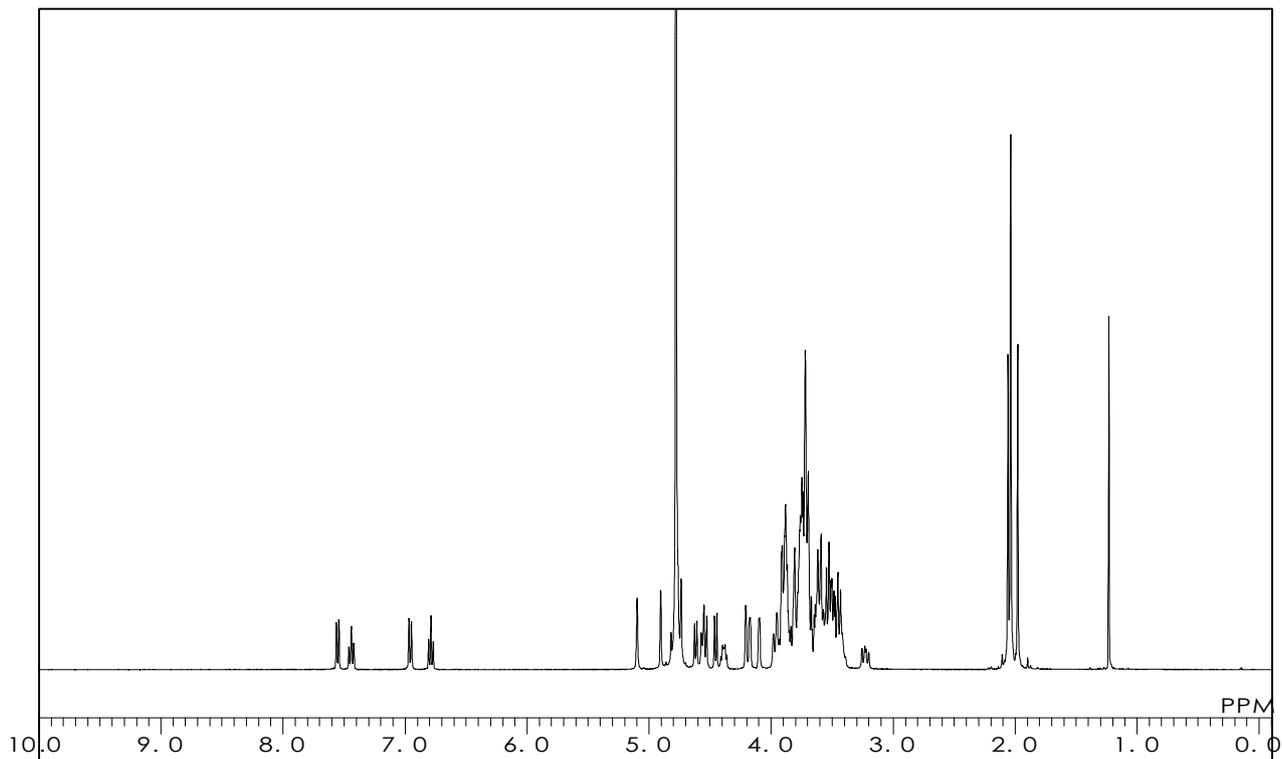
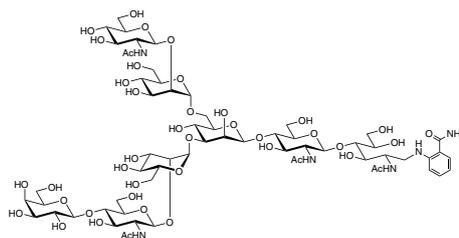
3-G1 2AB

$C_{63}H_{102}N_6O_{41} = 1599.51$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.4 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0485

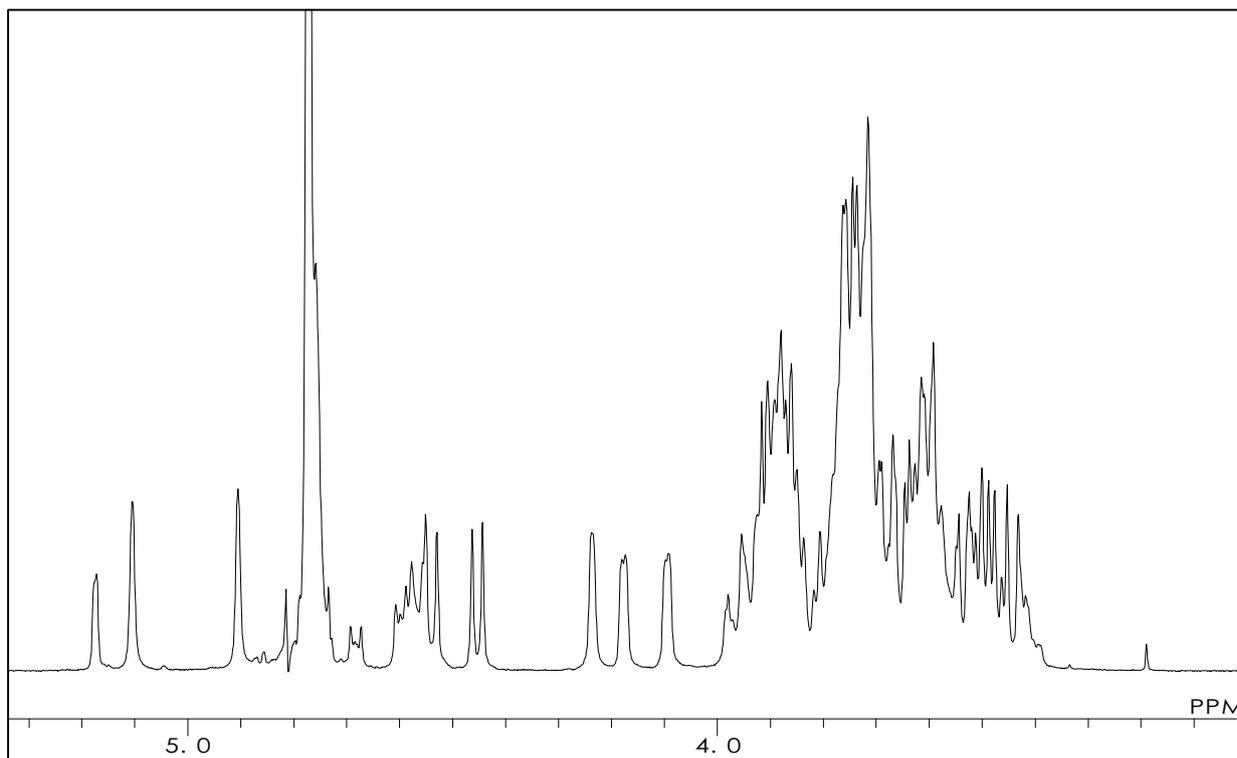
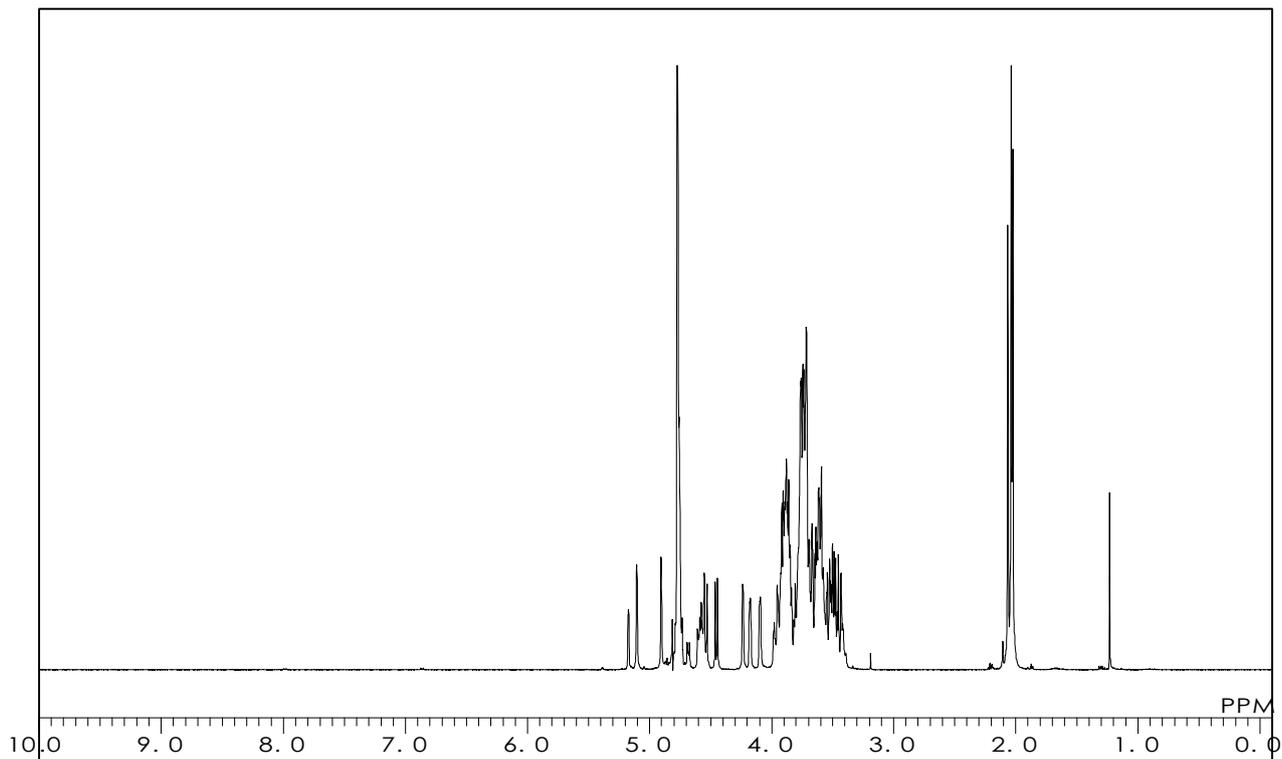
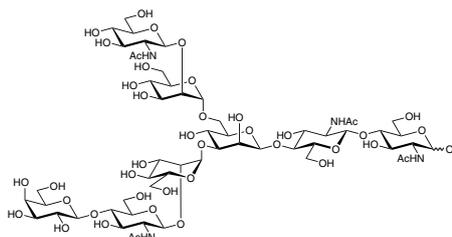
3-G1 Glycan

$C_{56}H_{94}N_4O_{41} = 1479.36$ [103584-68-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.0 °C



G0471

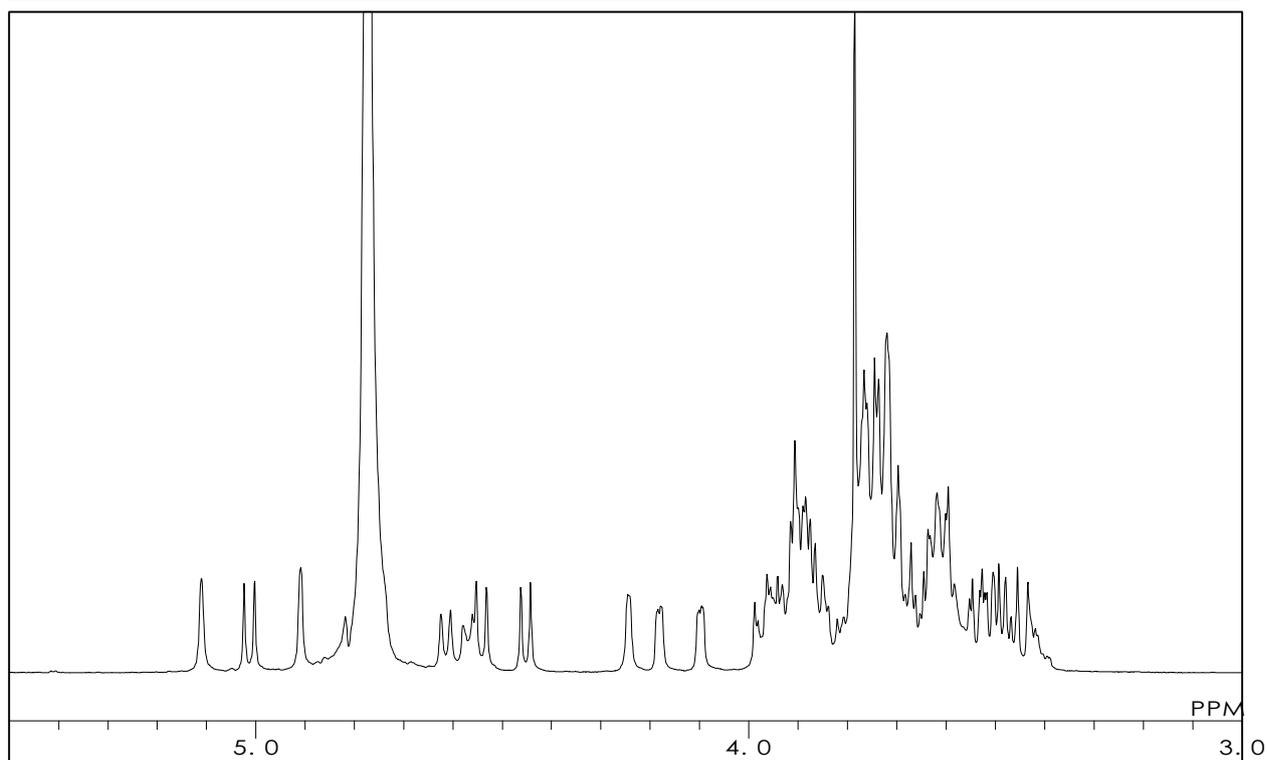
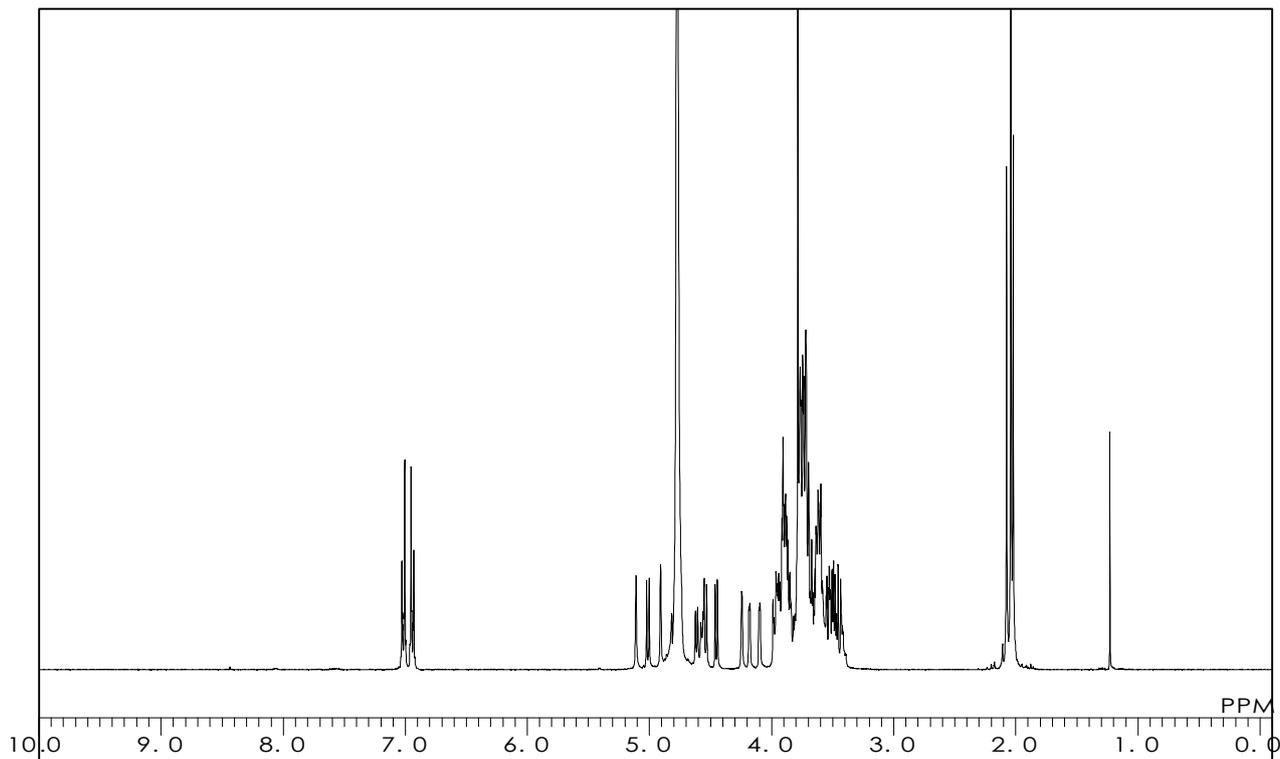
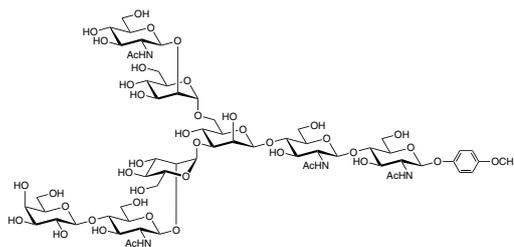
3-G1 MP Glycoside

$C_{63}H_{100}N_4O_{42} = 1585.48$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.3 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0492

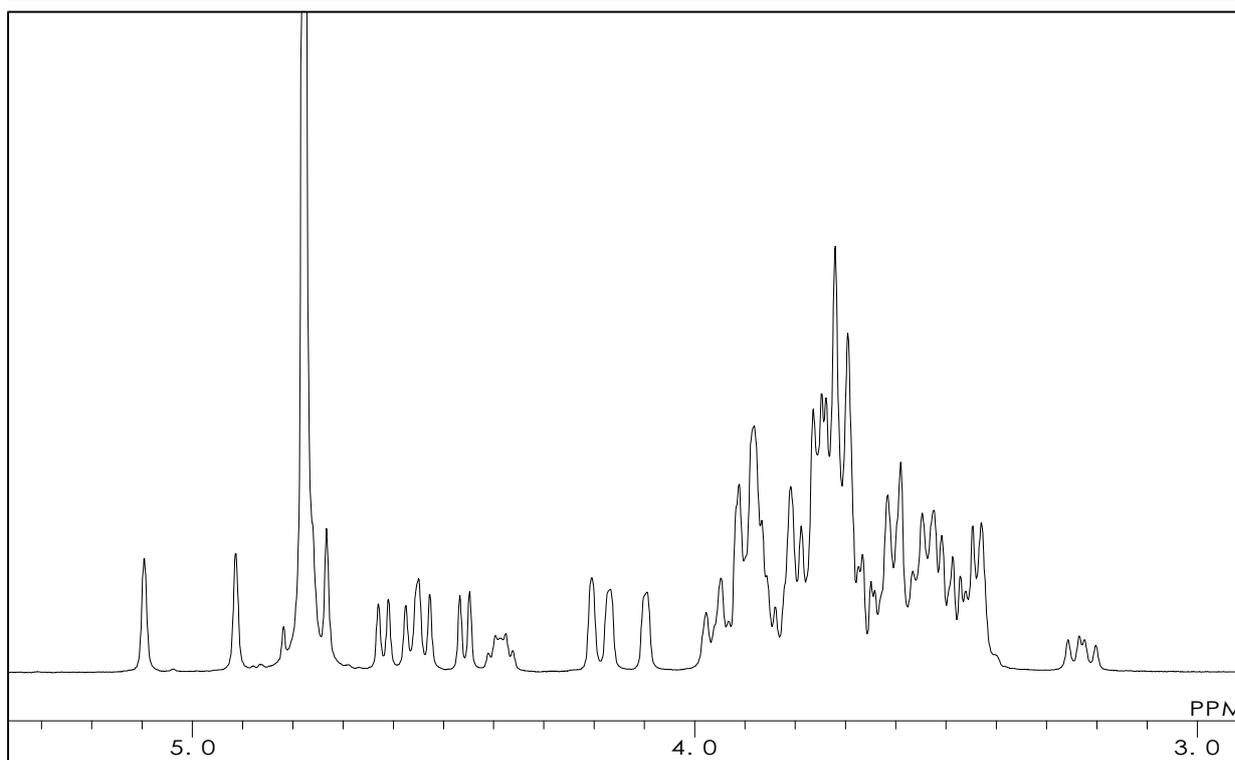
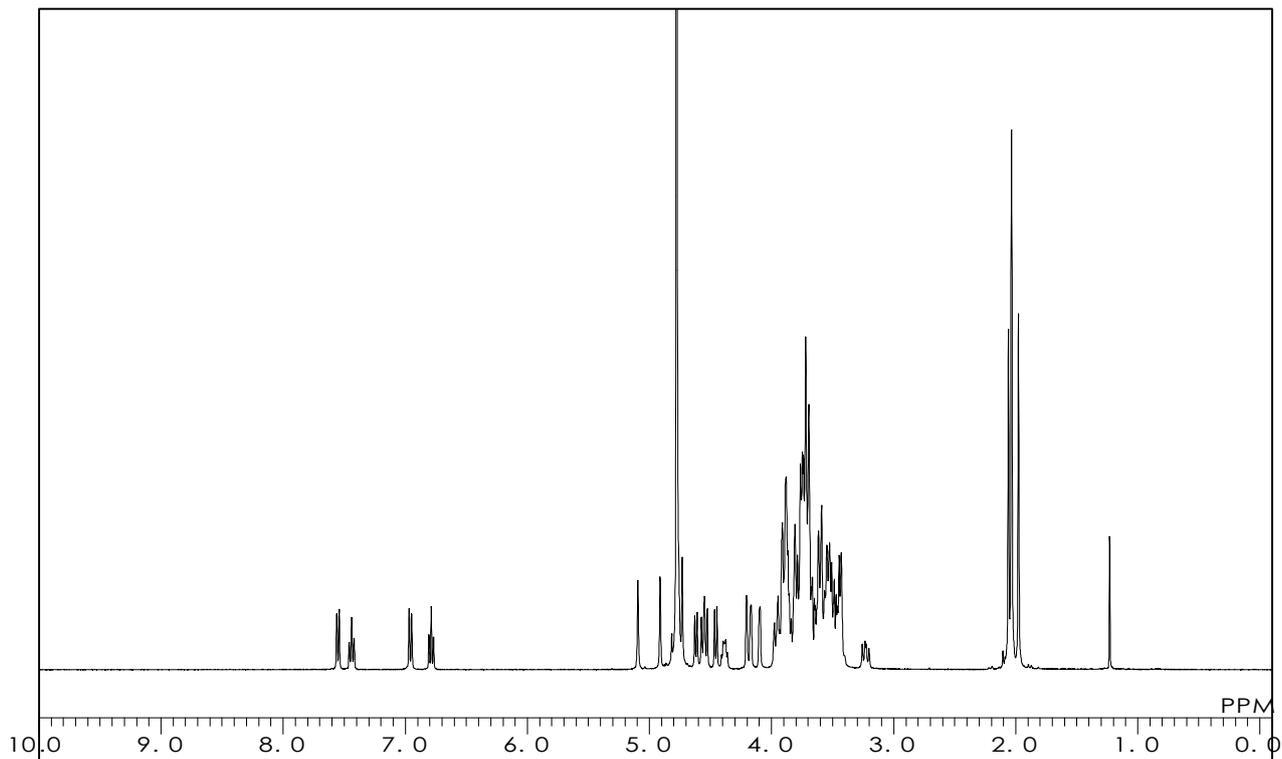
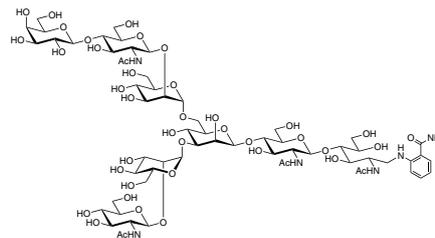
6-G1 2AB

$C_{63}H_{102}N_6O_{41} = 1599.51$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.2 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0486

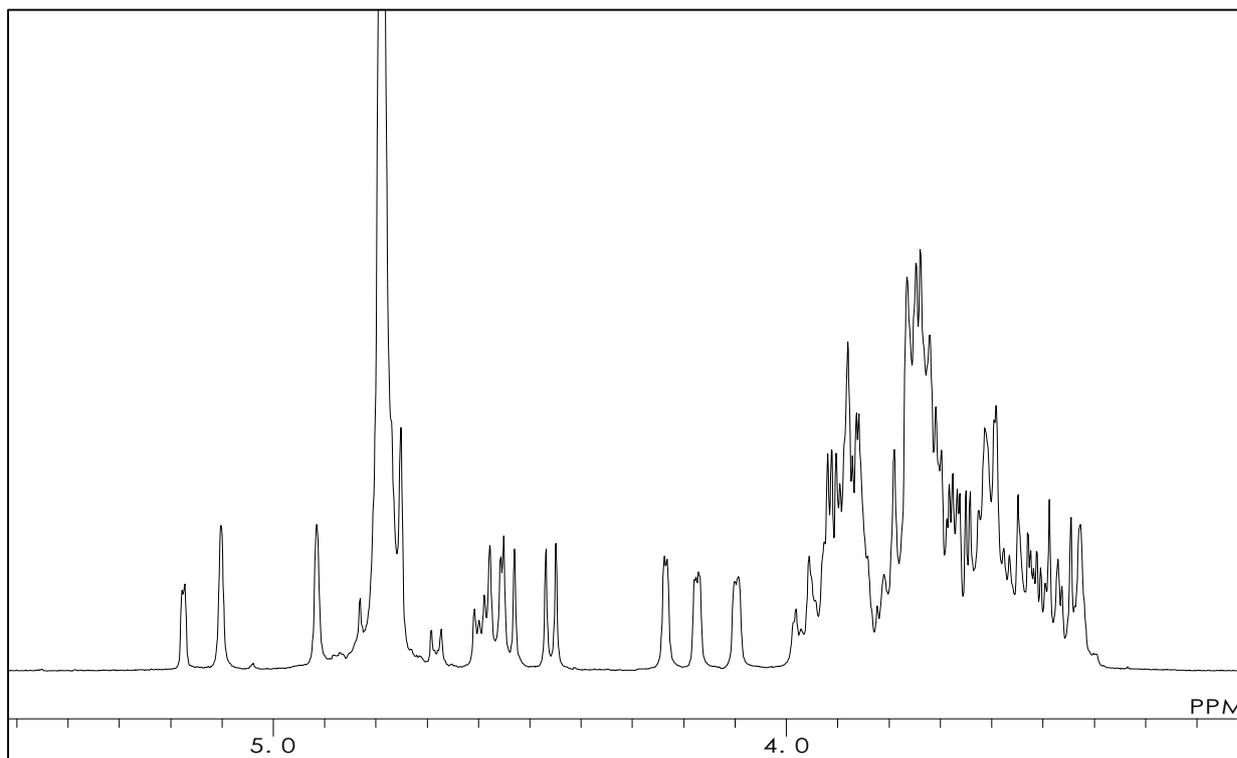
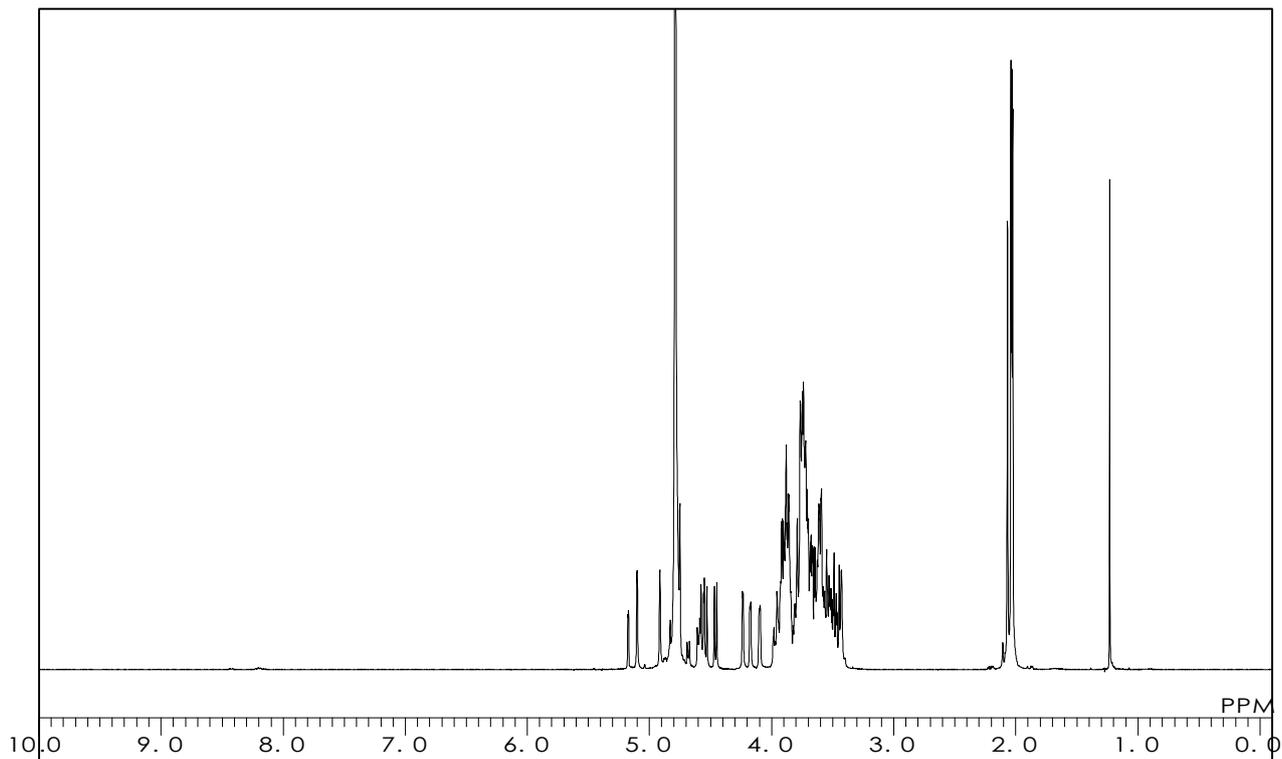
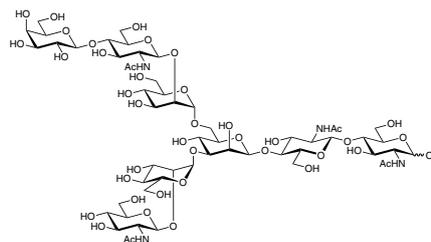
6-G1 Glycan

$C_{56}H_{94}N_4O_{41} = 1479.36$ [109050-95-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0472

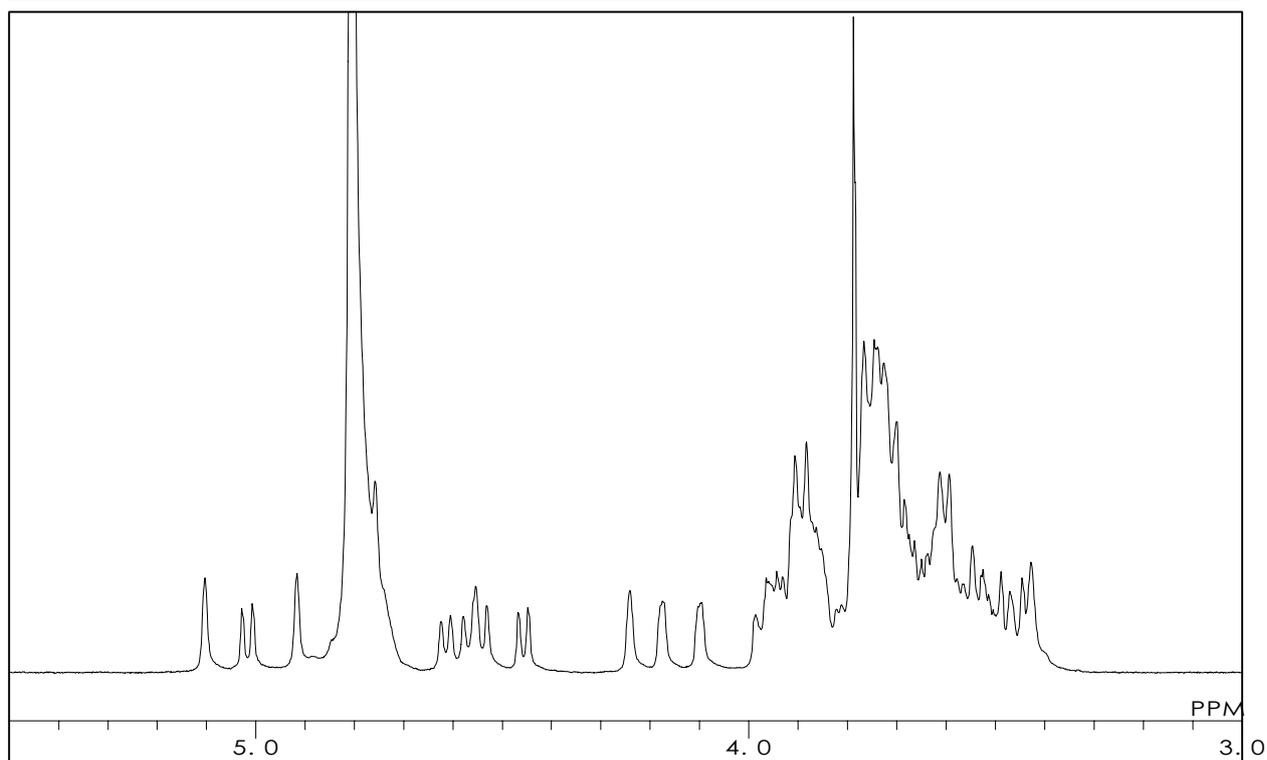
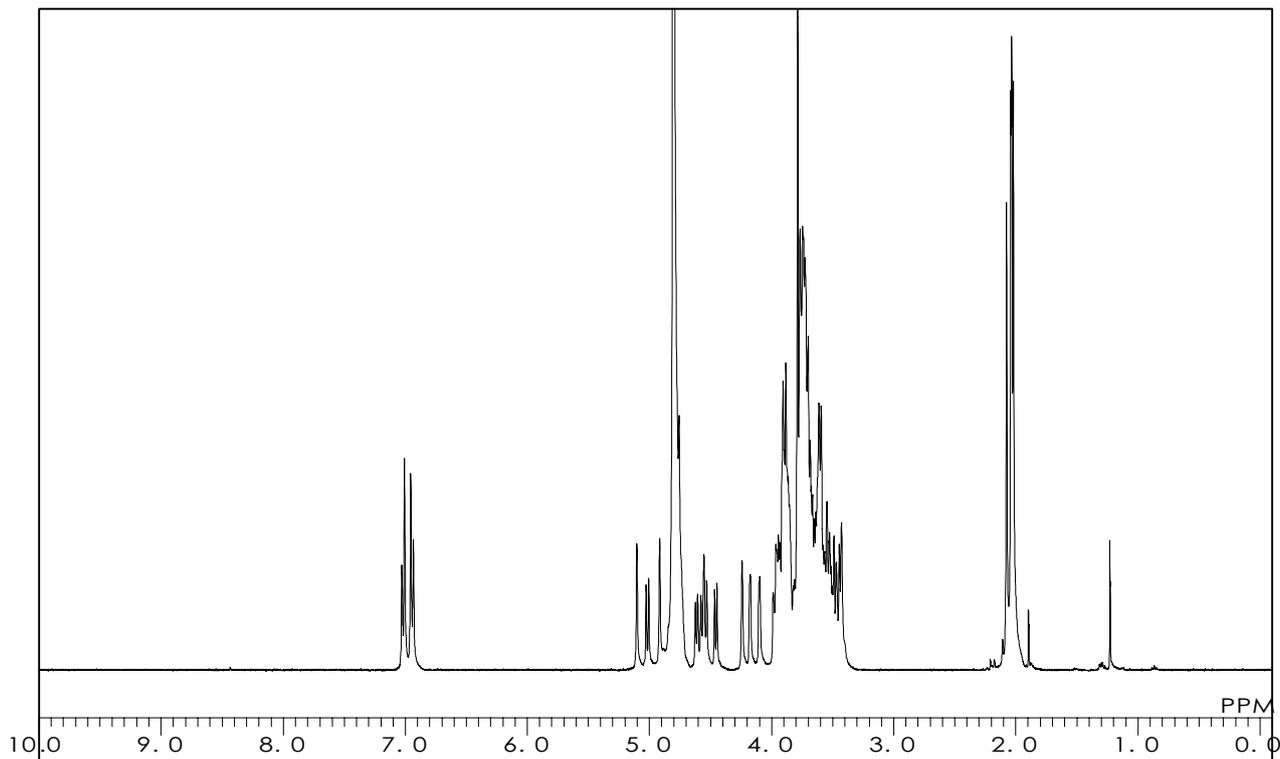
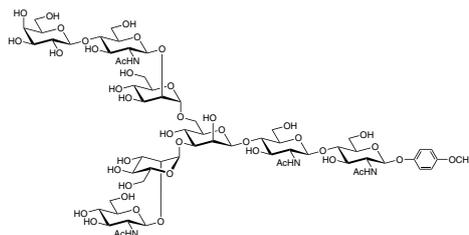
6-G1 MP Glycoside

$C_{63}H_{100}N_4O_{42} = 1585.48$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.1 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0493

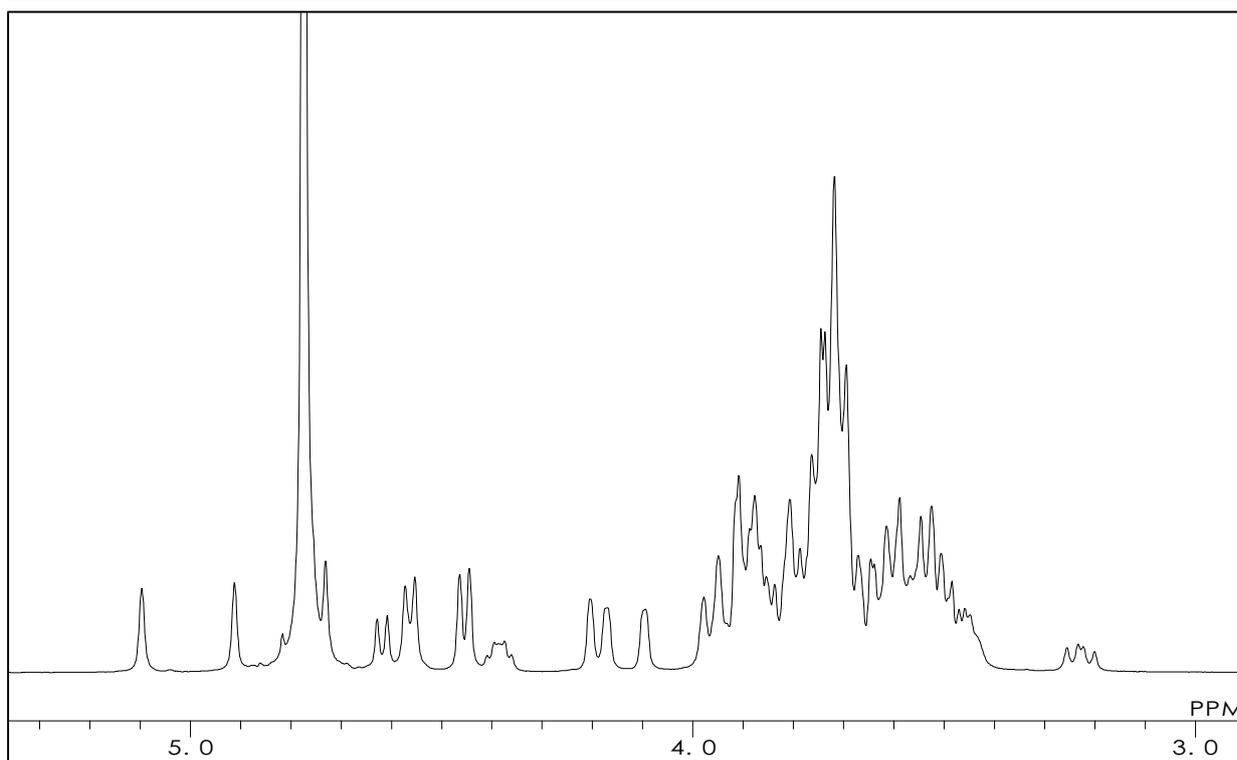
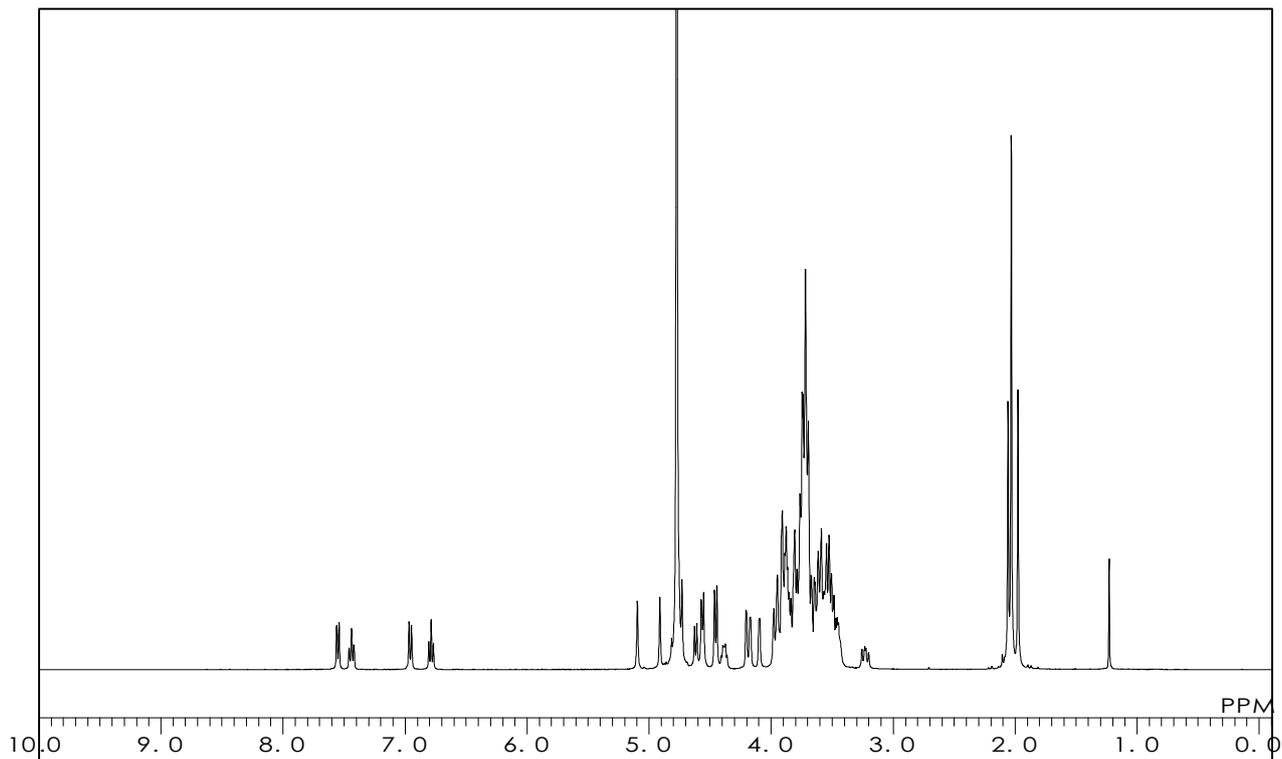
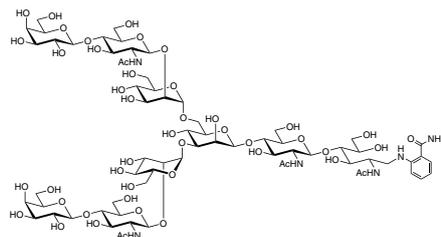
G2 2AB

$C_{69}H_{112}N_6O_{46} = 1761.65$ [263902-58-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.9 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0487

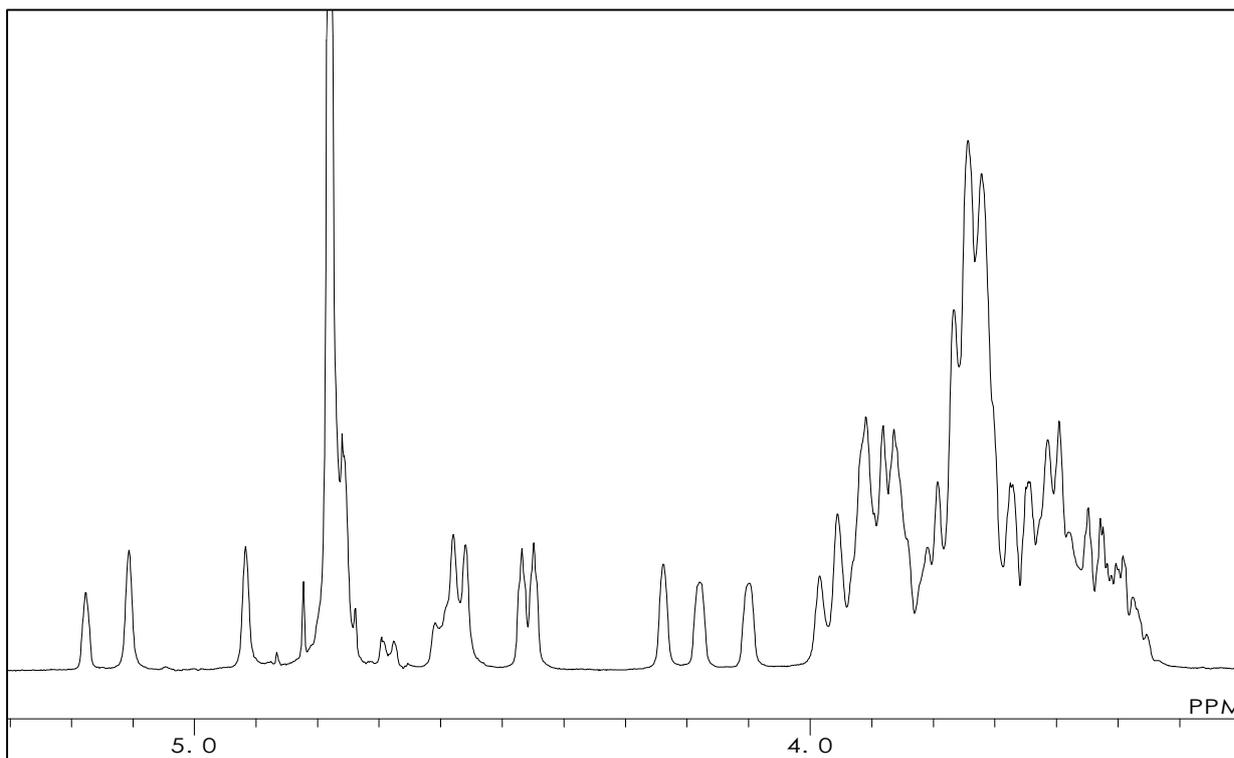
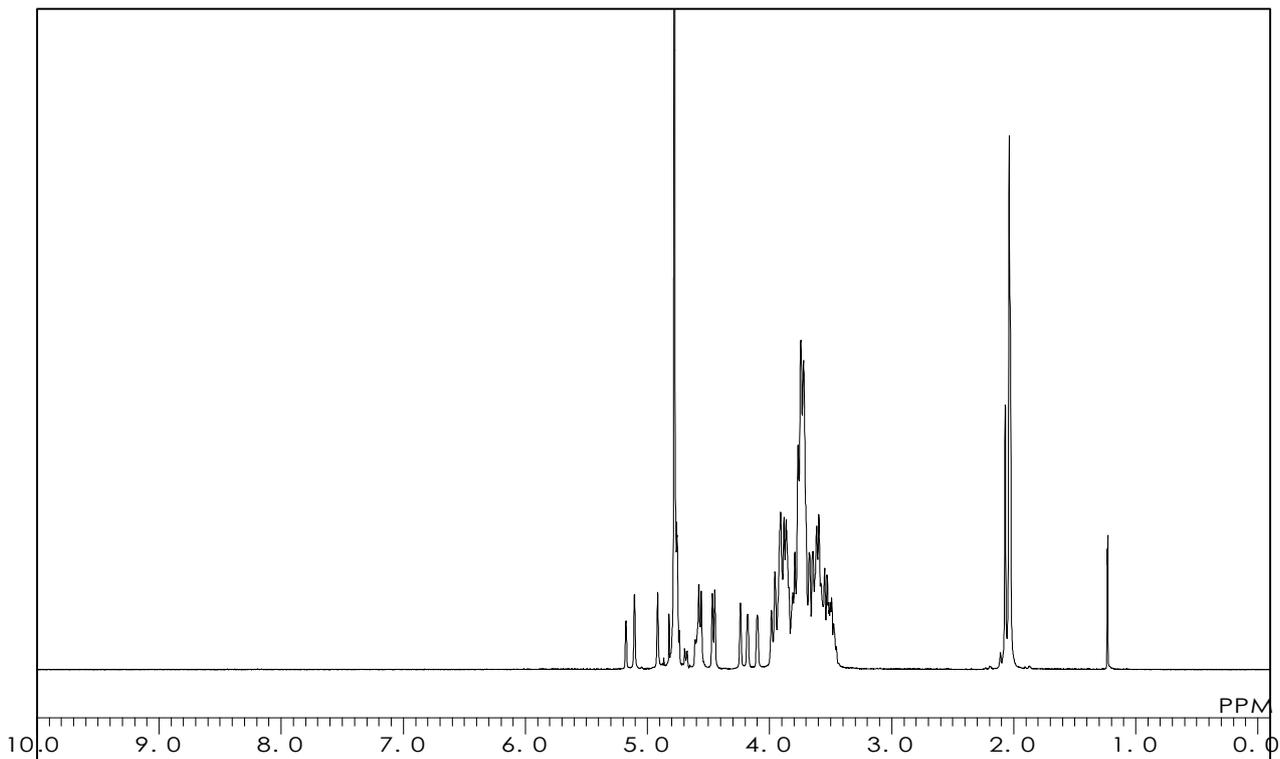
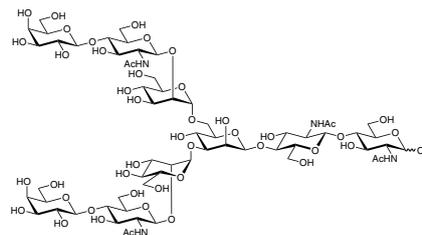
G2 Glycan

$C_{62}H_{104}N_4O_{46} = 1641.50$ [71496-53-2]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.9 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

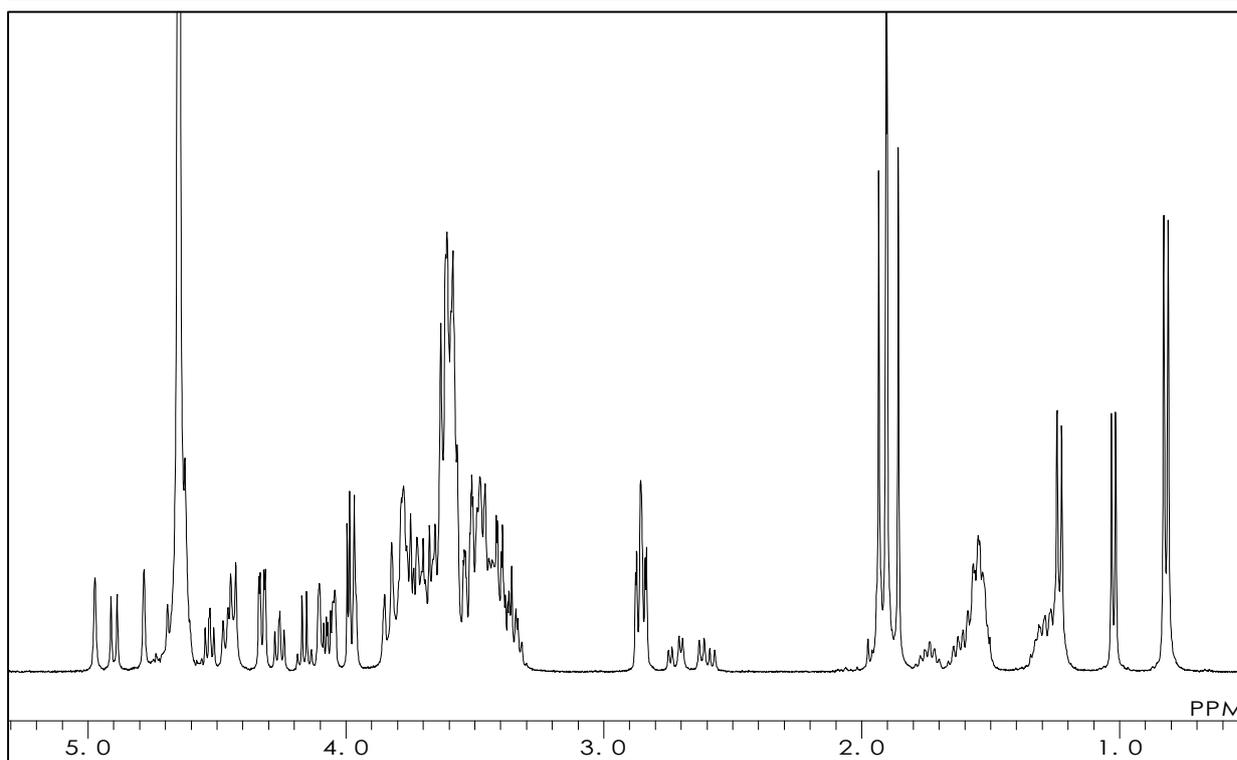
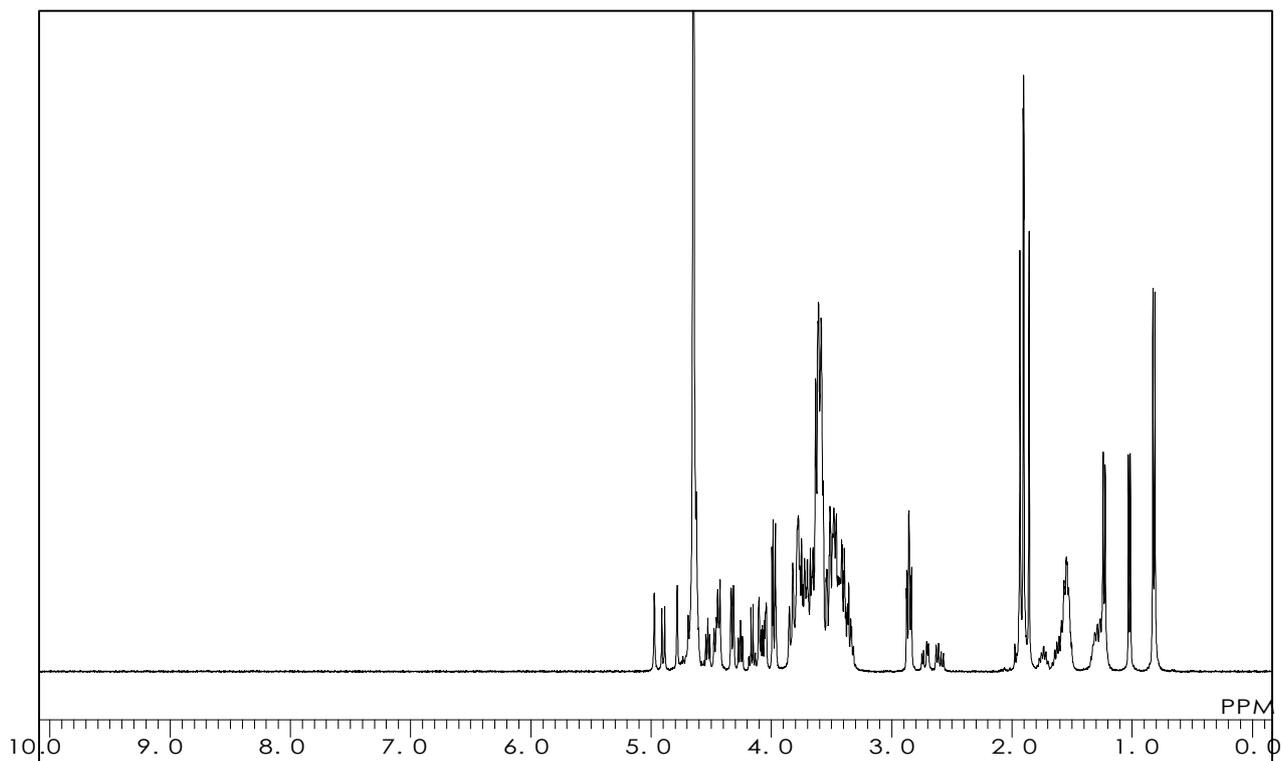
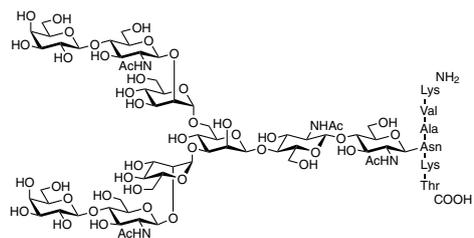
G0466

G2-peptide

$C_{90}H_{155}N_{13}O_{54} = 2283.27$ [361443-81-4]

Solvent : D_2O

Measured Temperature : 23.4 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0488

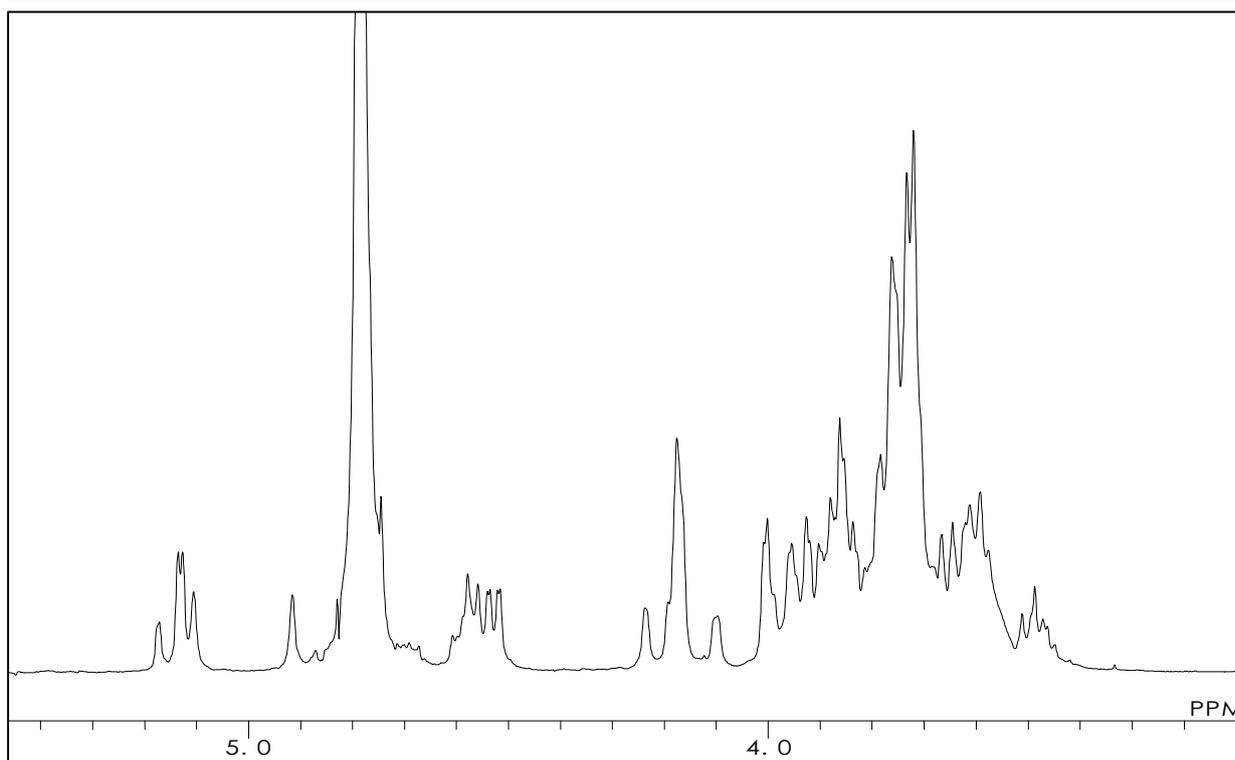
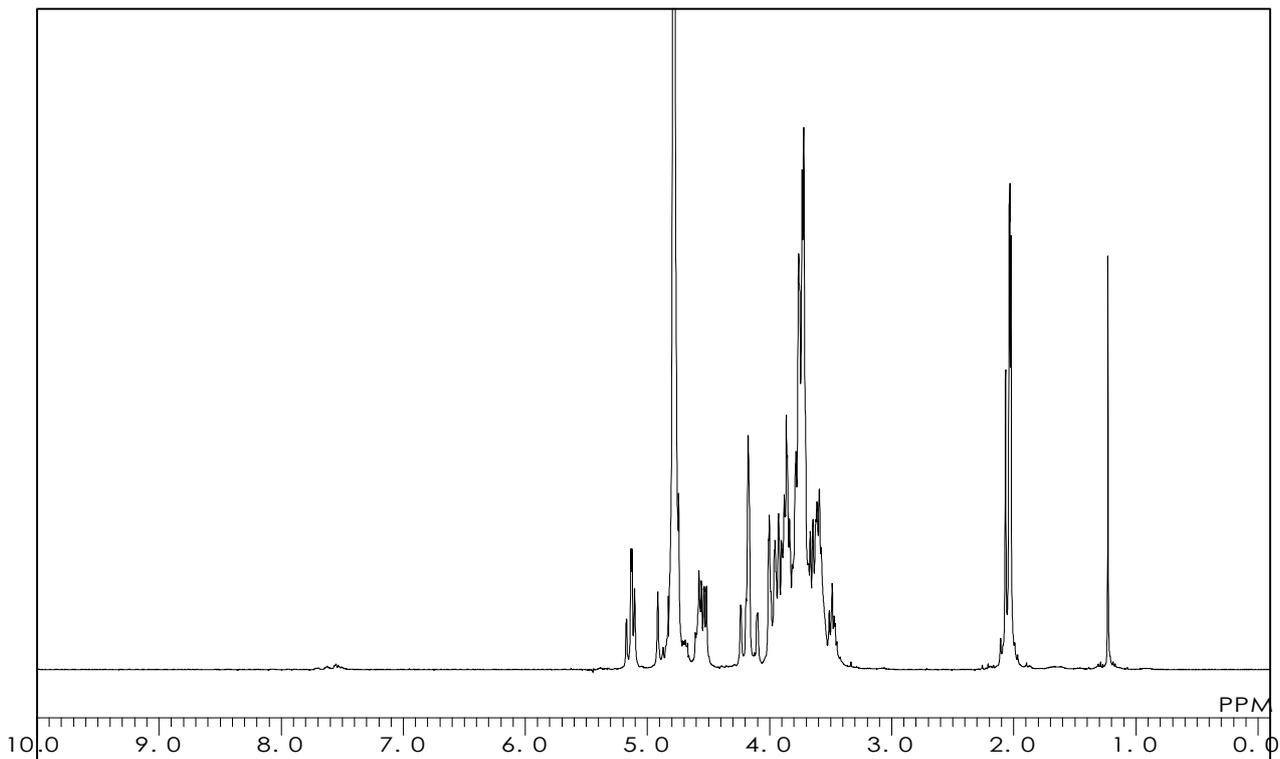
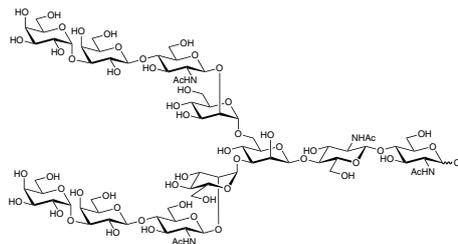
Gal α (1-3) N-Glycan

$C_{74}H_{124}N_4O_{56} = 1965.78$ [115973-45-0]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.9 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

G0494

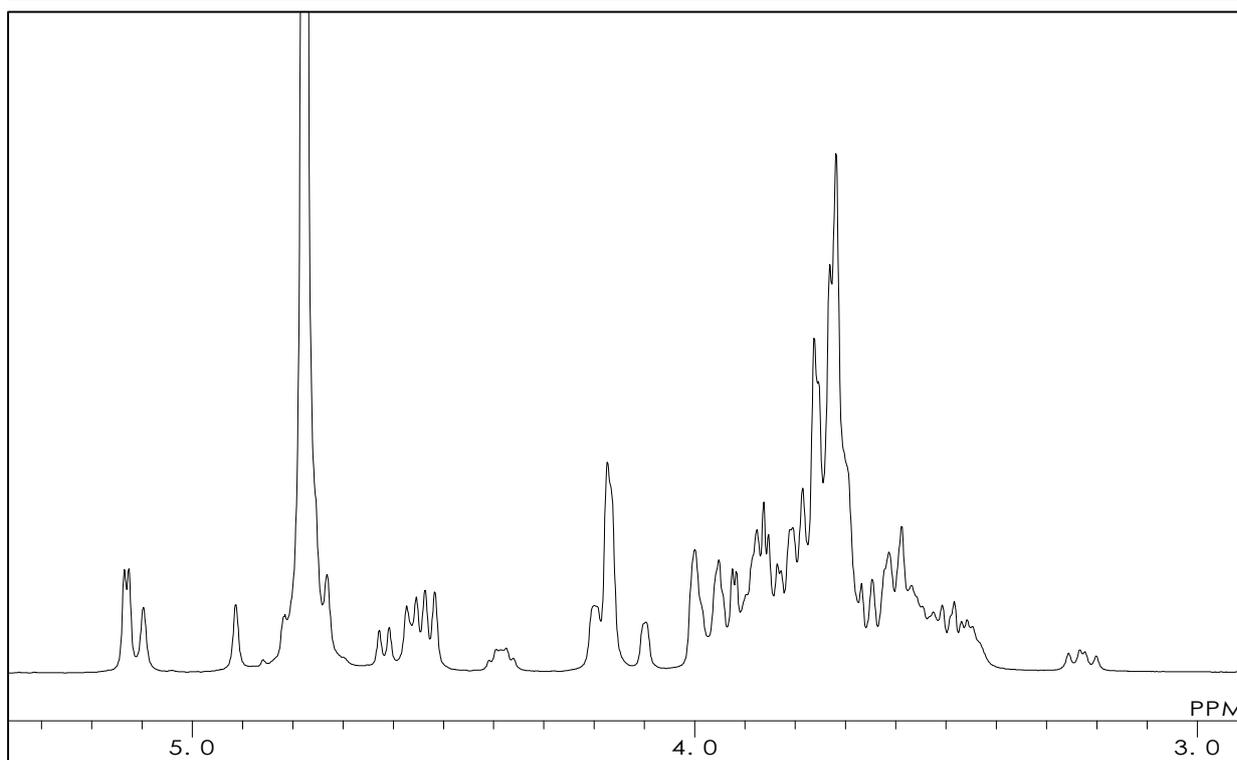
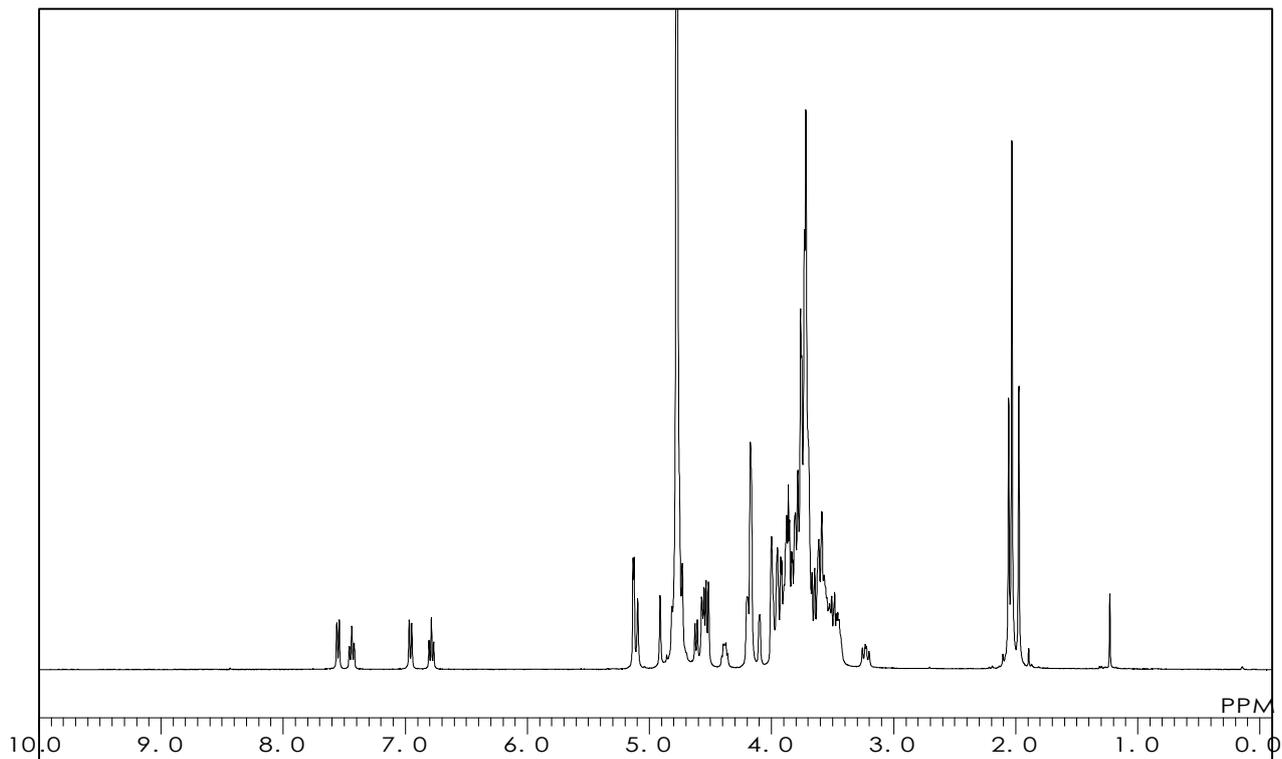
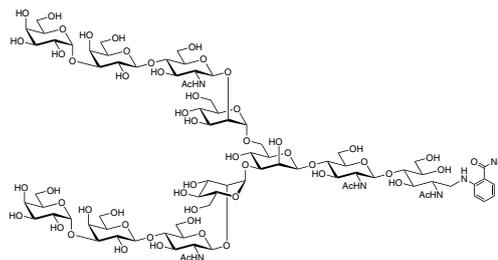
Gal α (1-3) N-Glycan 2AB

$C_{81}H_{132}N_6O_{56} = 2085.93$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.7 °C

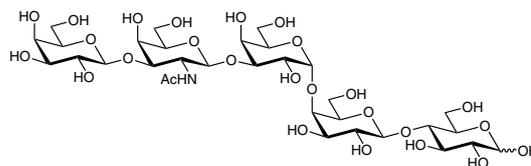


本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0434

Gal β (1-3)GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc

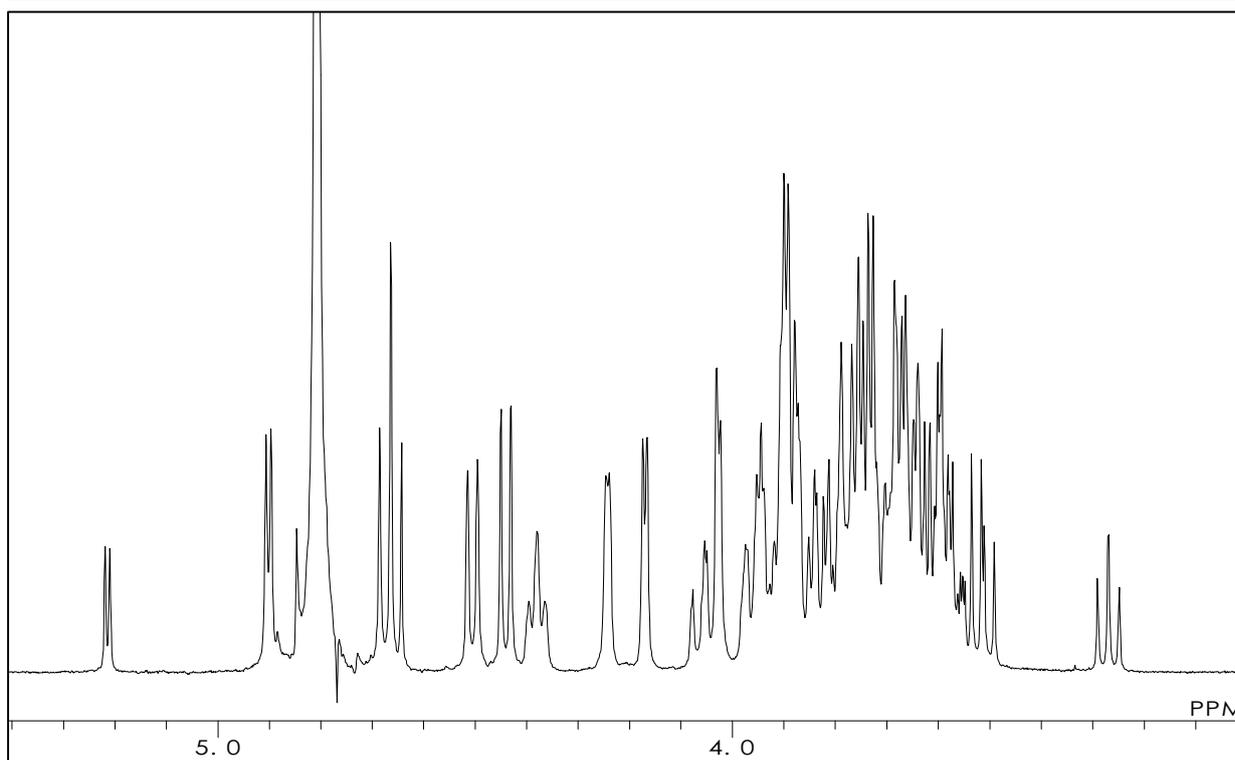
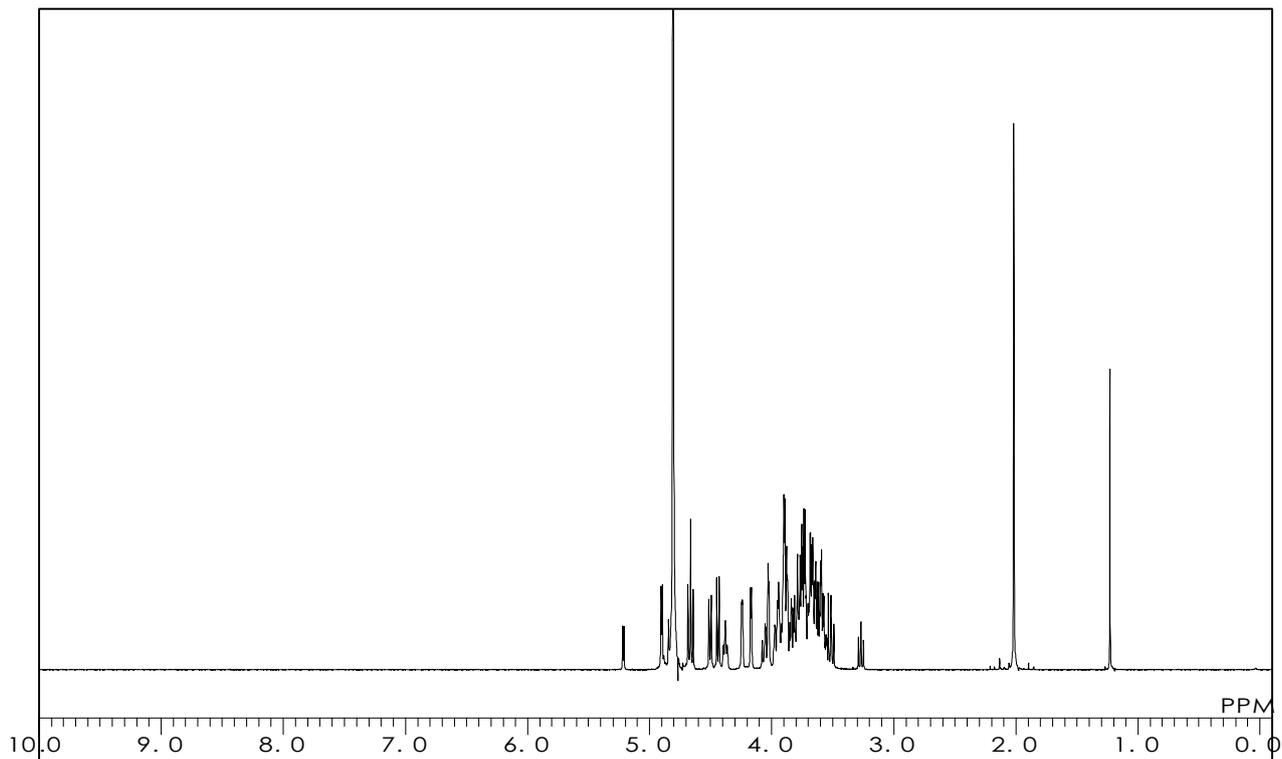
$C_{32}H_{55}NO_{26} = 869.77$ [145882-74-2]



Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.1 $^{\circ}C$



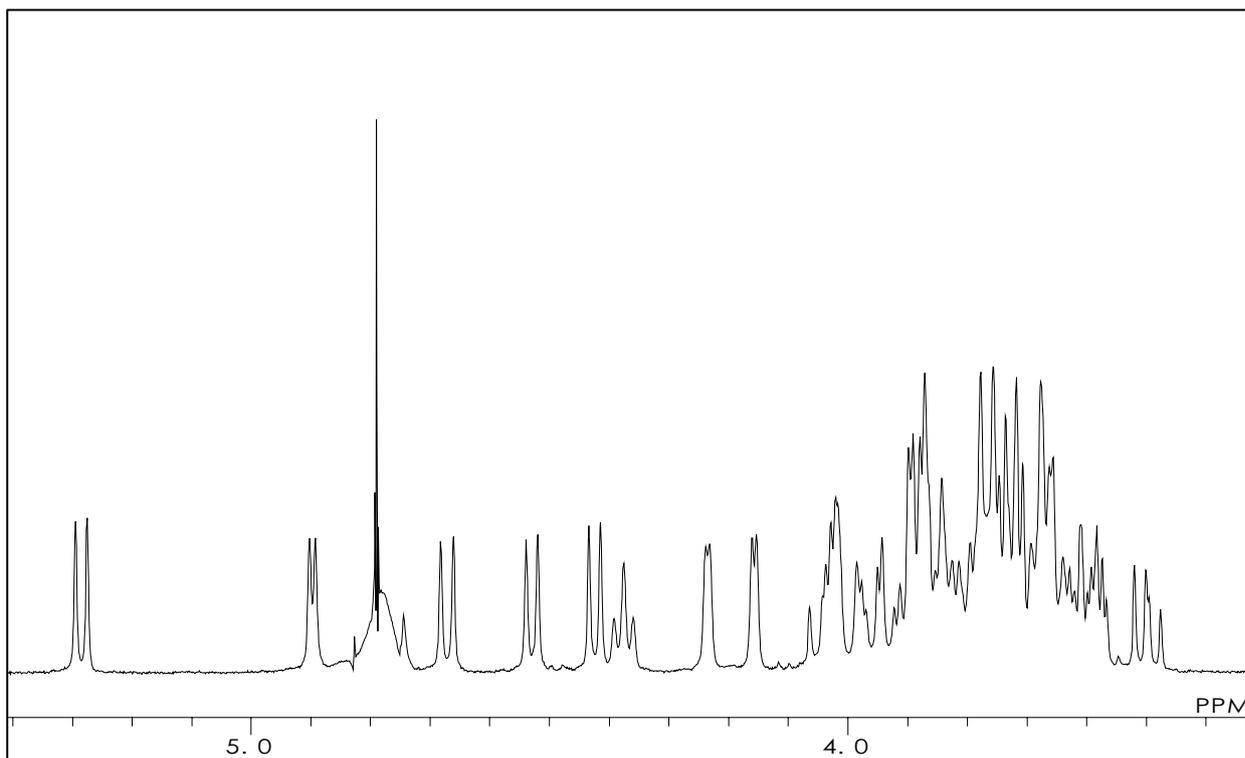
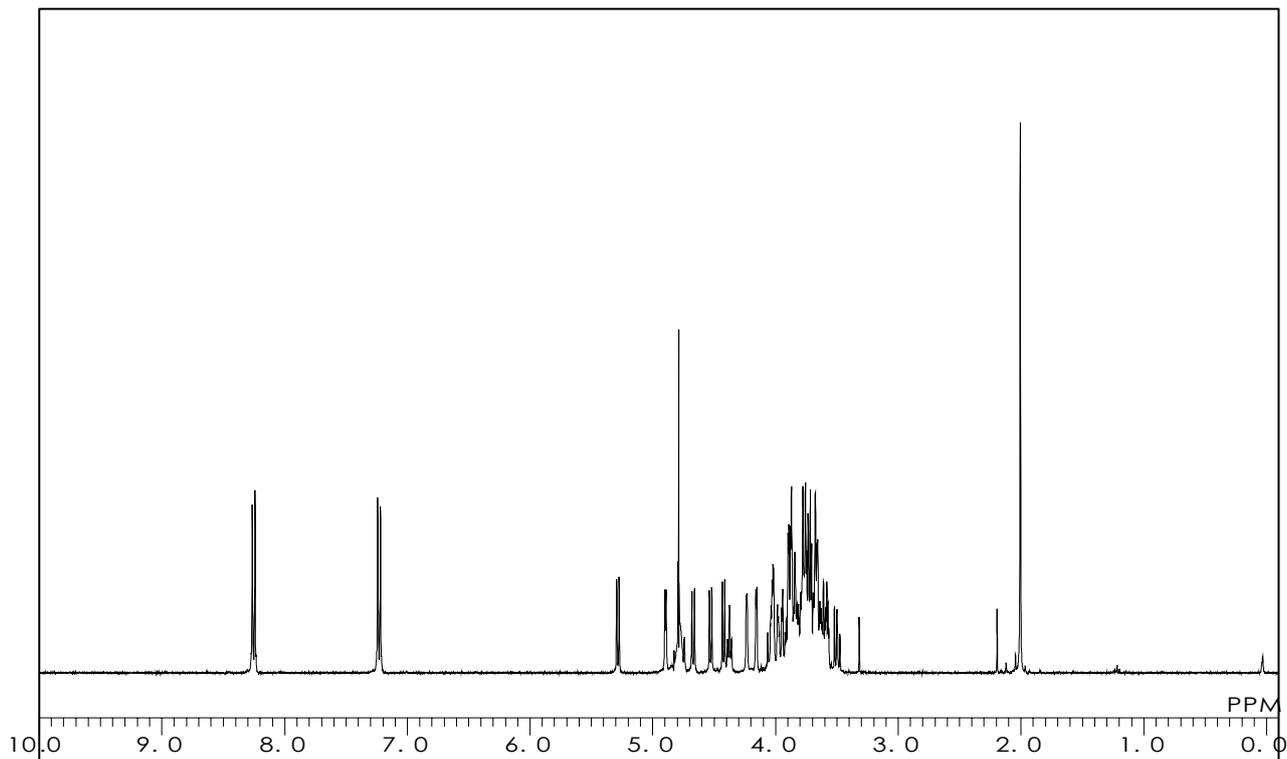
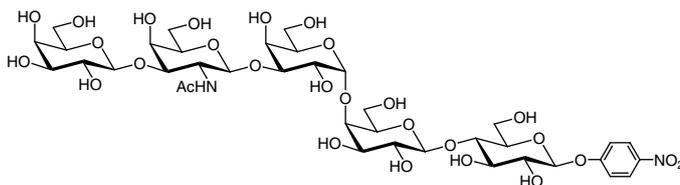
G0355

Gal β (1-3)GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc- β -pNP

$C_{38}H_{58}N_2O_{28} = 990.87$

Solvent : D_2O

Measured Temperature : 21.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0483

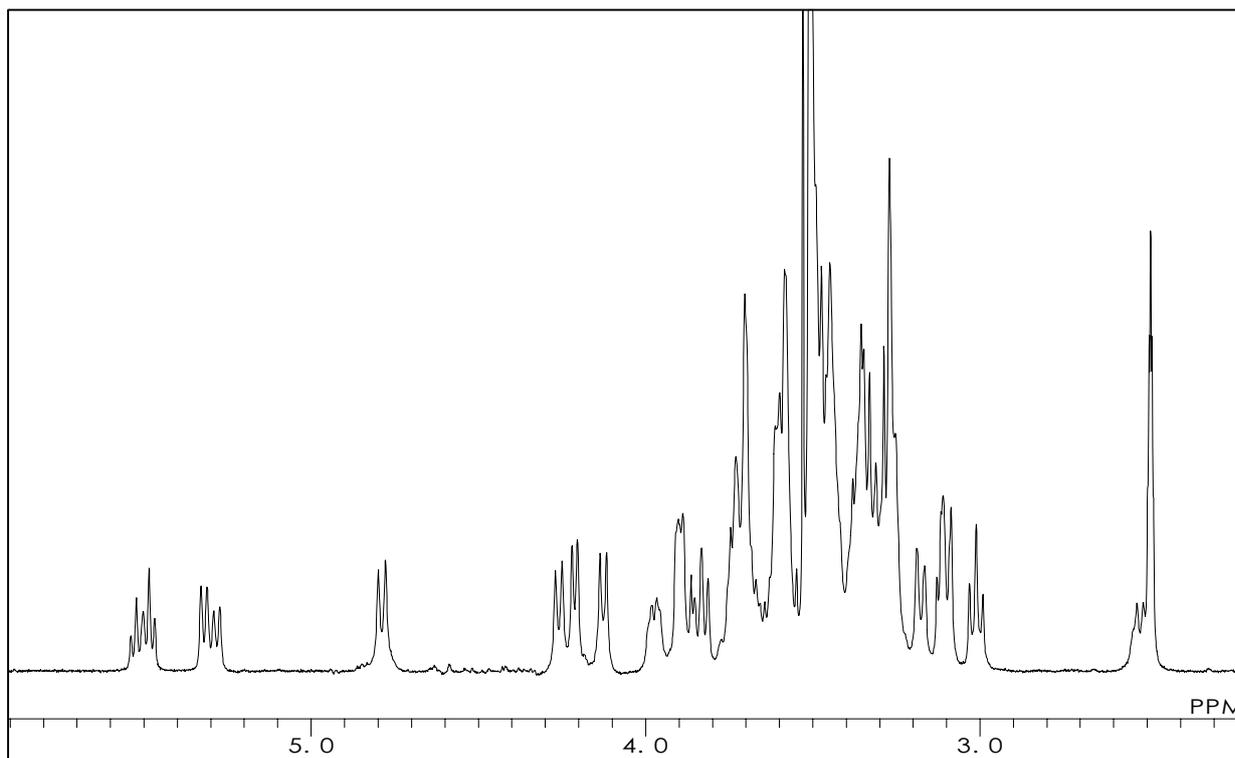
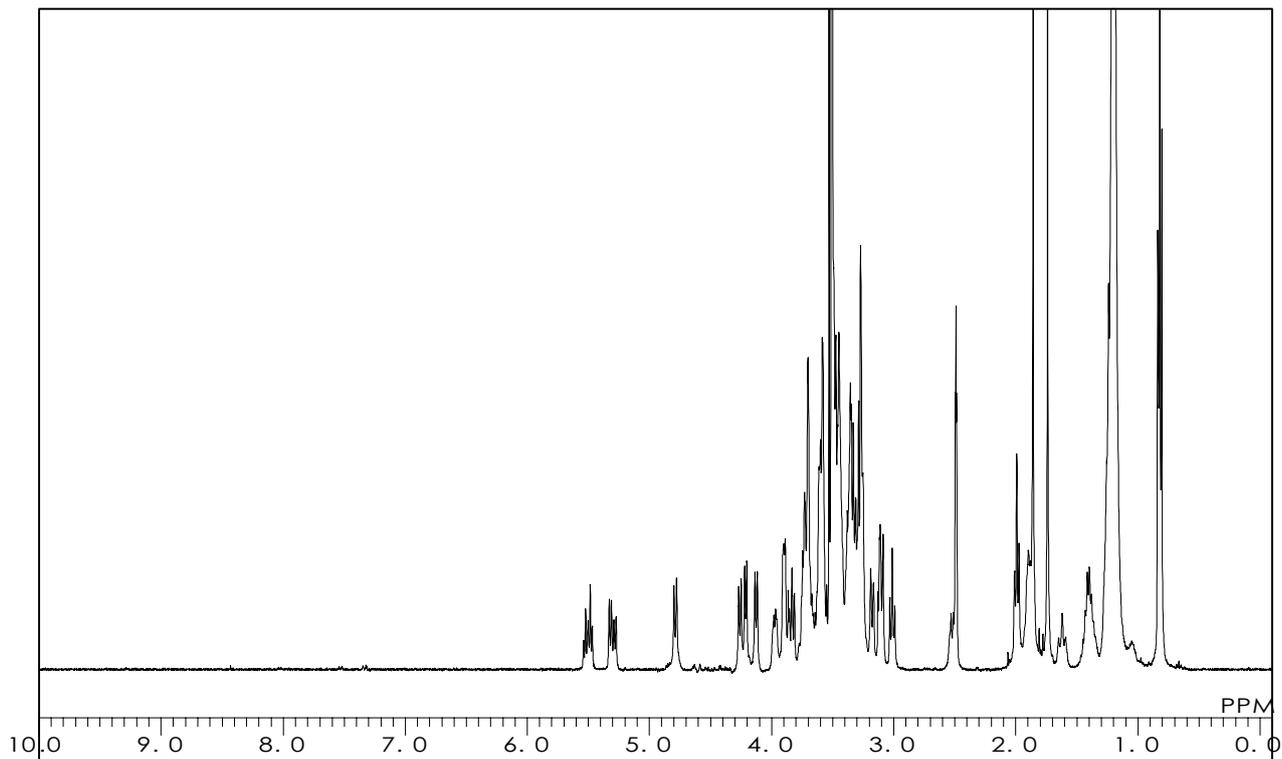
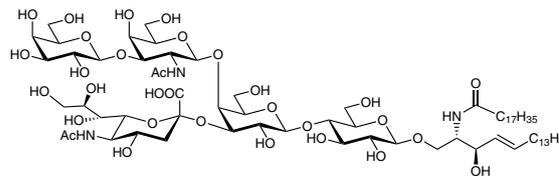
Ganglioside GM₁

C₇₃H₁₃₁N₃O₃₁ = 1546.84 [37758-47-7]

Solvent : DMSO-d₆

Internal Standard : DMSO (δ 2.49)

Measured Temperature : 24.2 °C



G0421

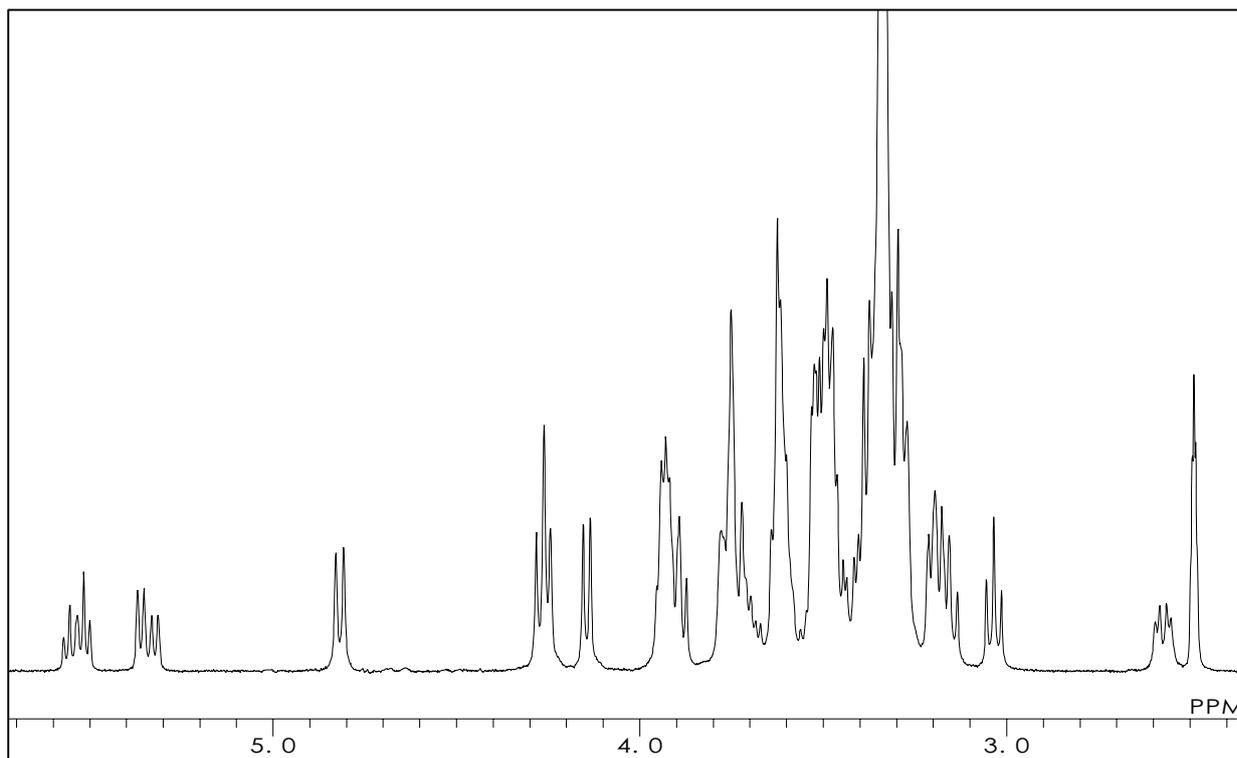
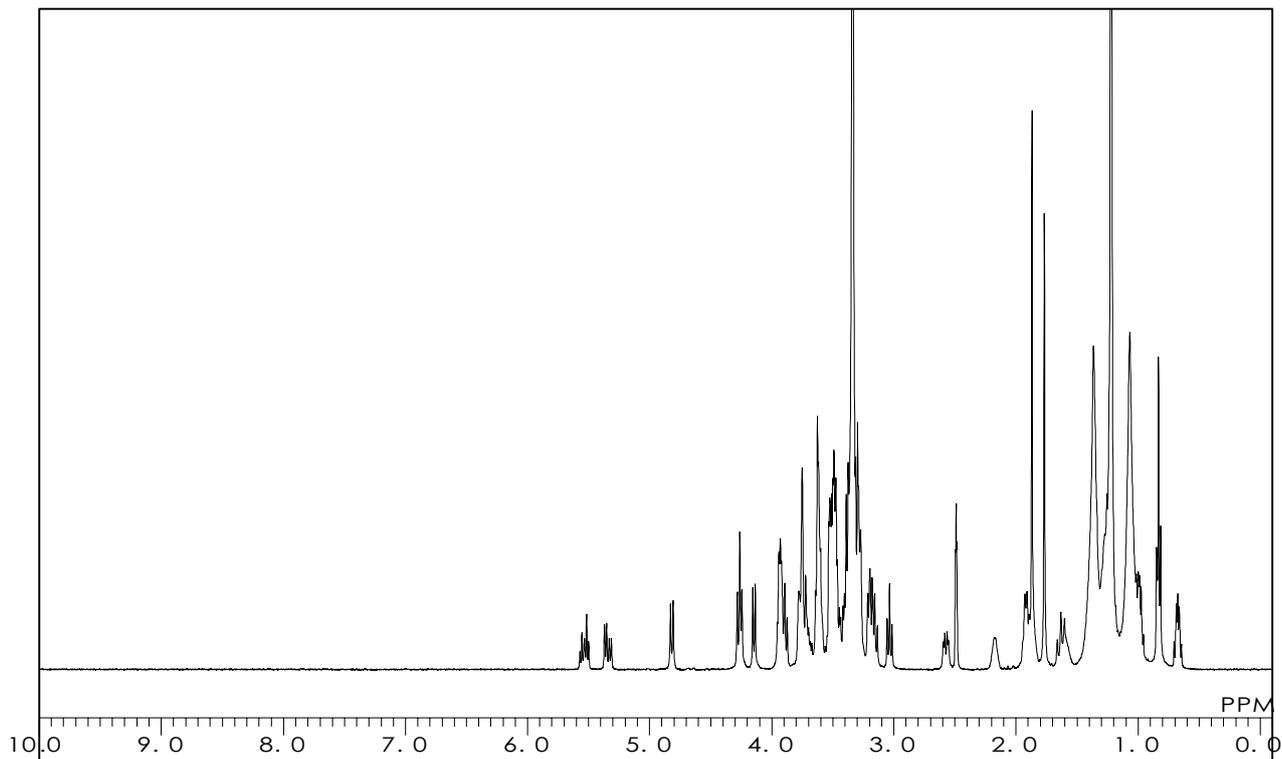
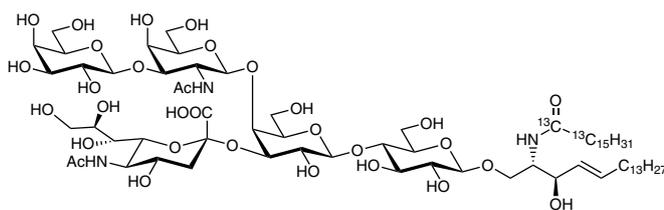
Ganglioside GM₁[d18:1, (Carbon-13)C16:0]

$^{13}\text{C}_{16}\text{C}_{55}\text{H}_{127}\text{N}_3\text{O}_{31} = 1534.66$

Solvent : DMSO-d₆/D₂O = 49/1

Internal Standard : DMSO (δ 2.49)

Measured Temperature : 60.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

G0531

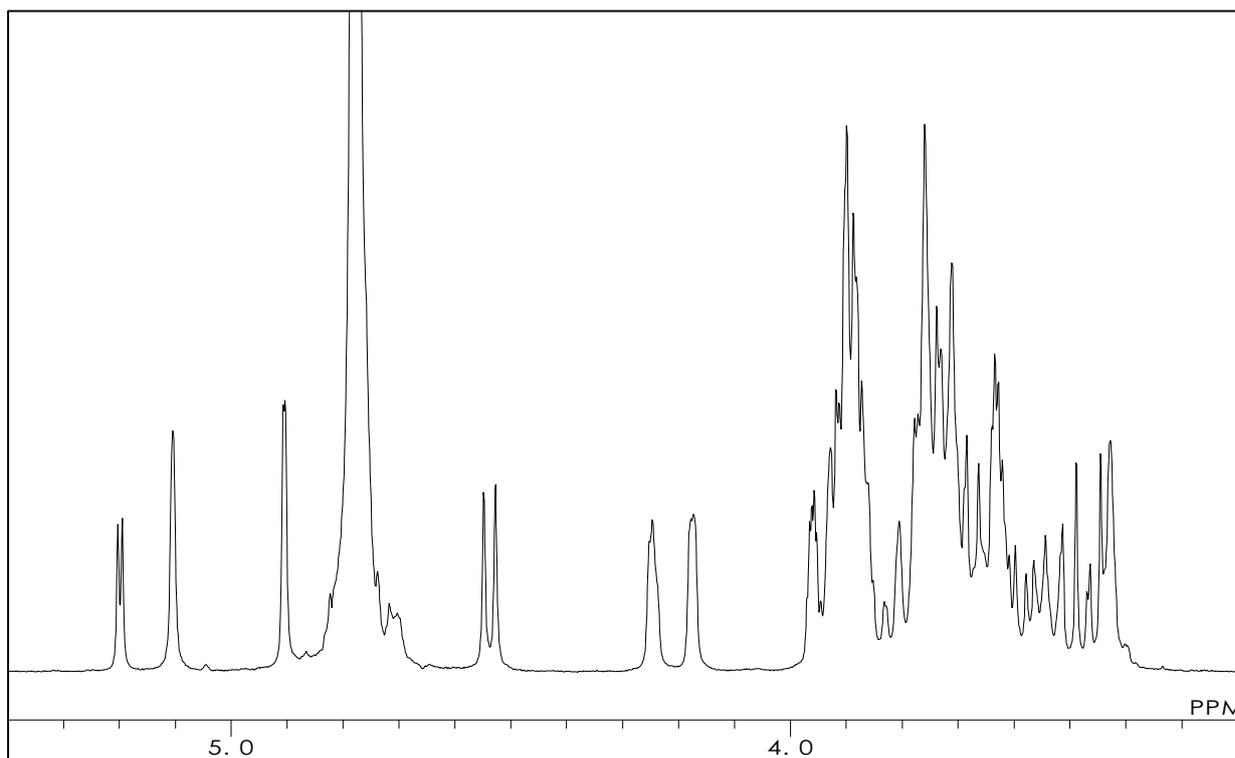
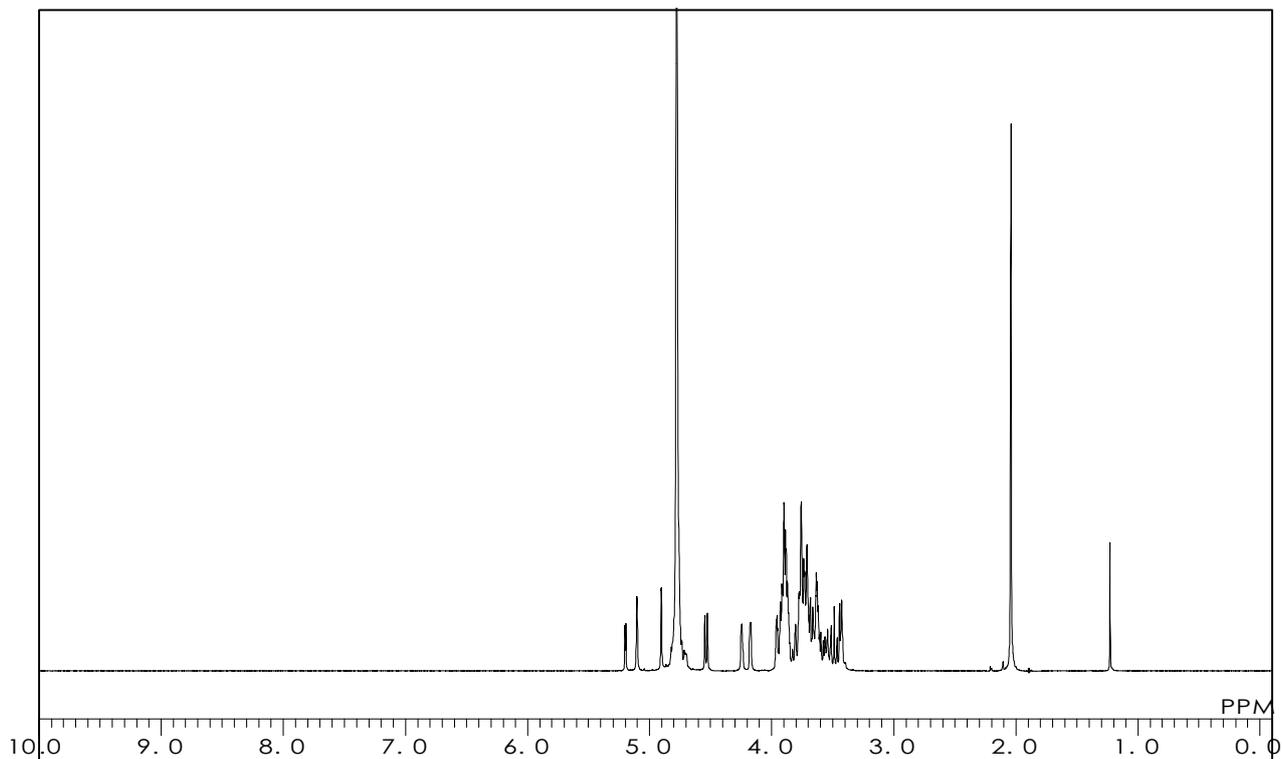
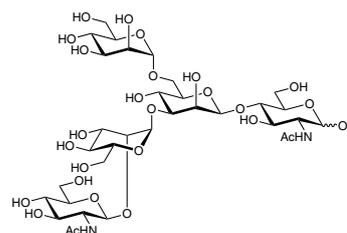
**GlcNAc β (1-2)Man α (1-3)
[Man α (1-6)]Man β (1-4)GlcNAc**

$C_{34}H_{58}N_2O_{26} = 910.83$ [76786-13-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.9 °C



H1487

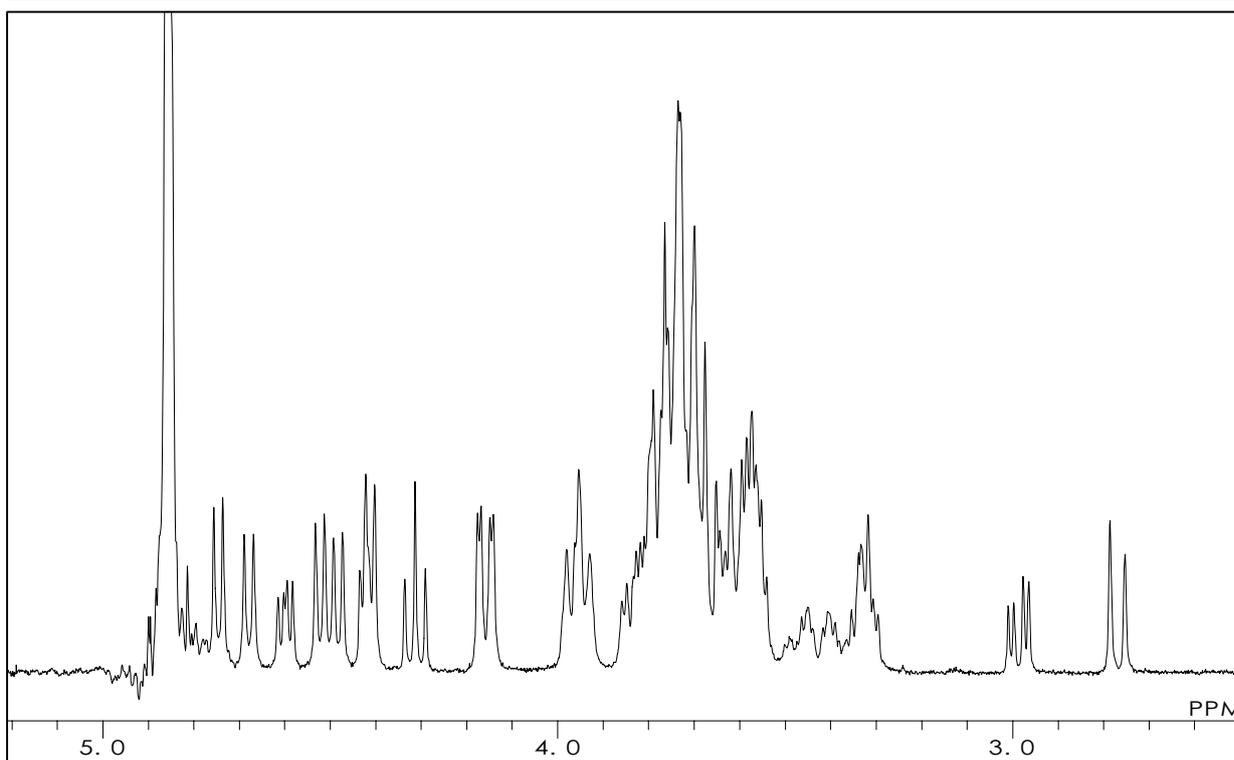
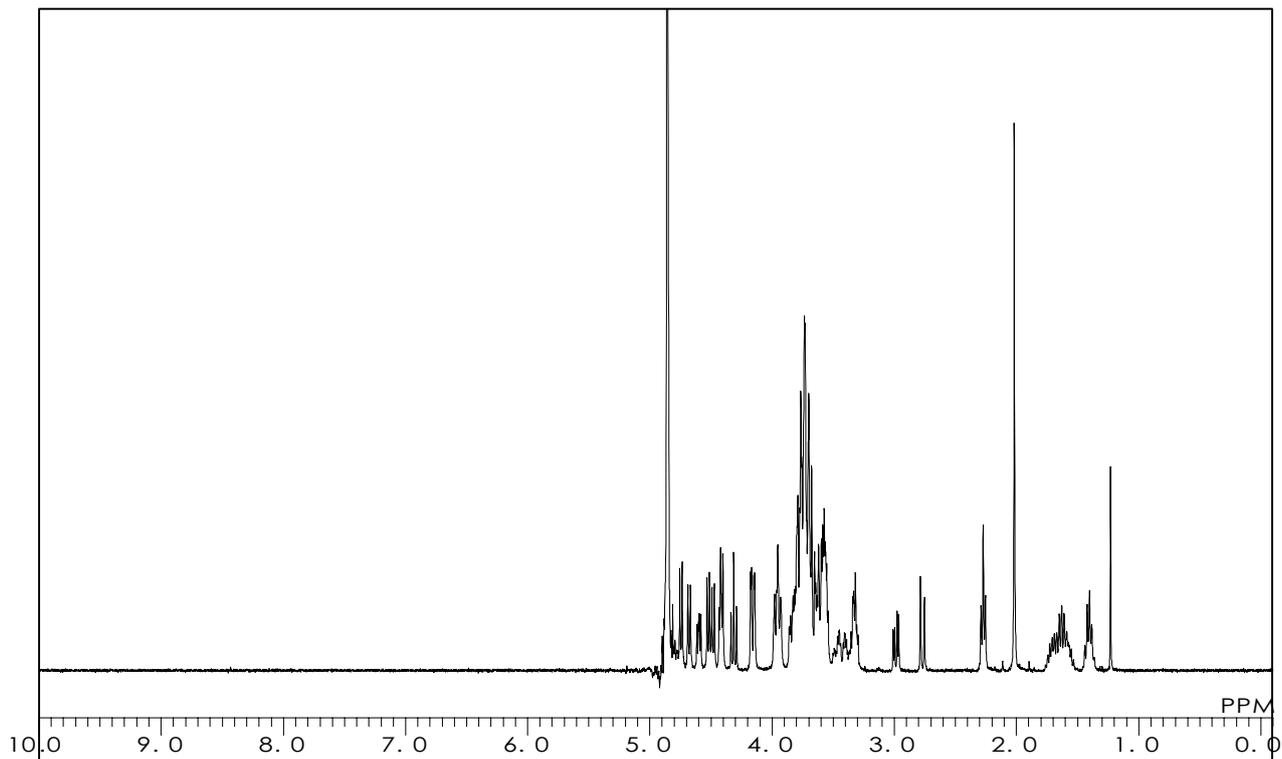
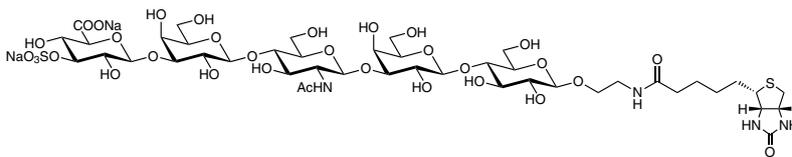
HNK-1 Biotin

$C_{44}H_{70}N_4Na_2O_{32}S_2 = 1277.14$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 16.7 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

H1333

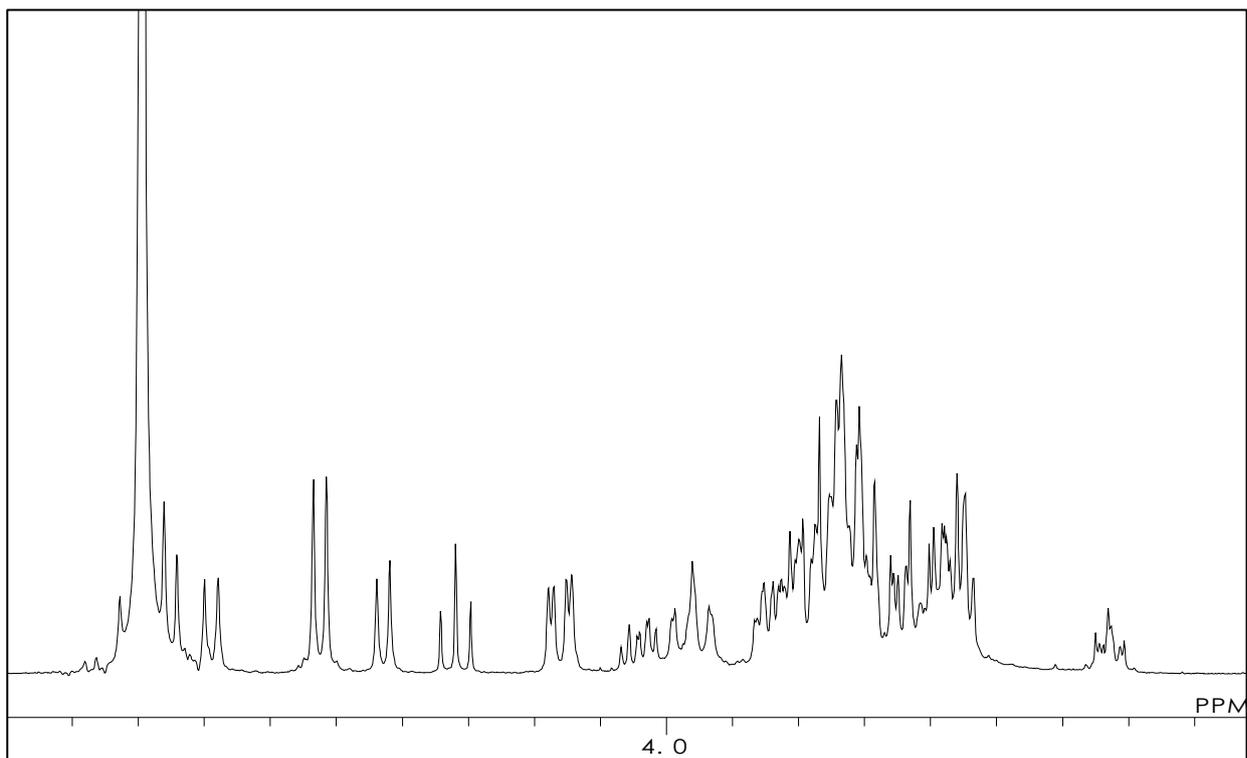
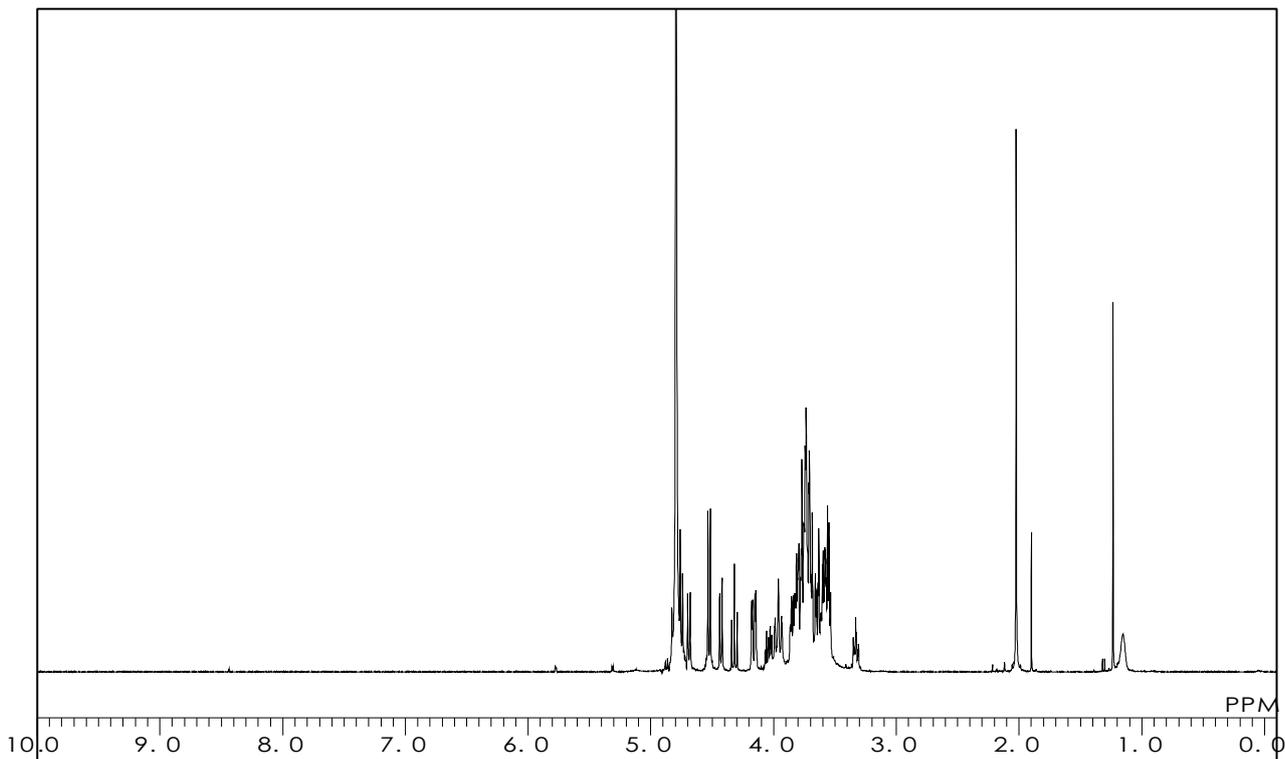
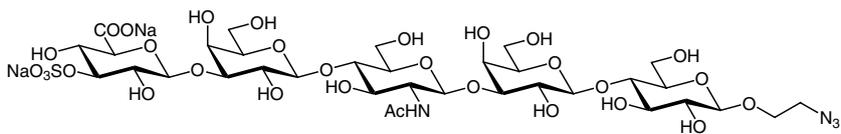
HNK-1 Ethylazide

$C_{34}H_{54}N_4Na_2O_{30}S = 1076.84$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.2 °C

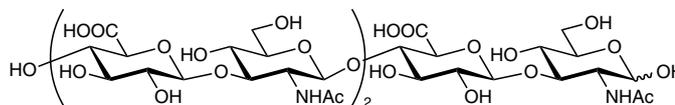


Please refrain from the conversion of these data without permission. These data have been released on our homepage.

H1285

Hyaluronate Hexasaccharide

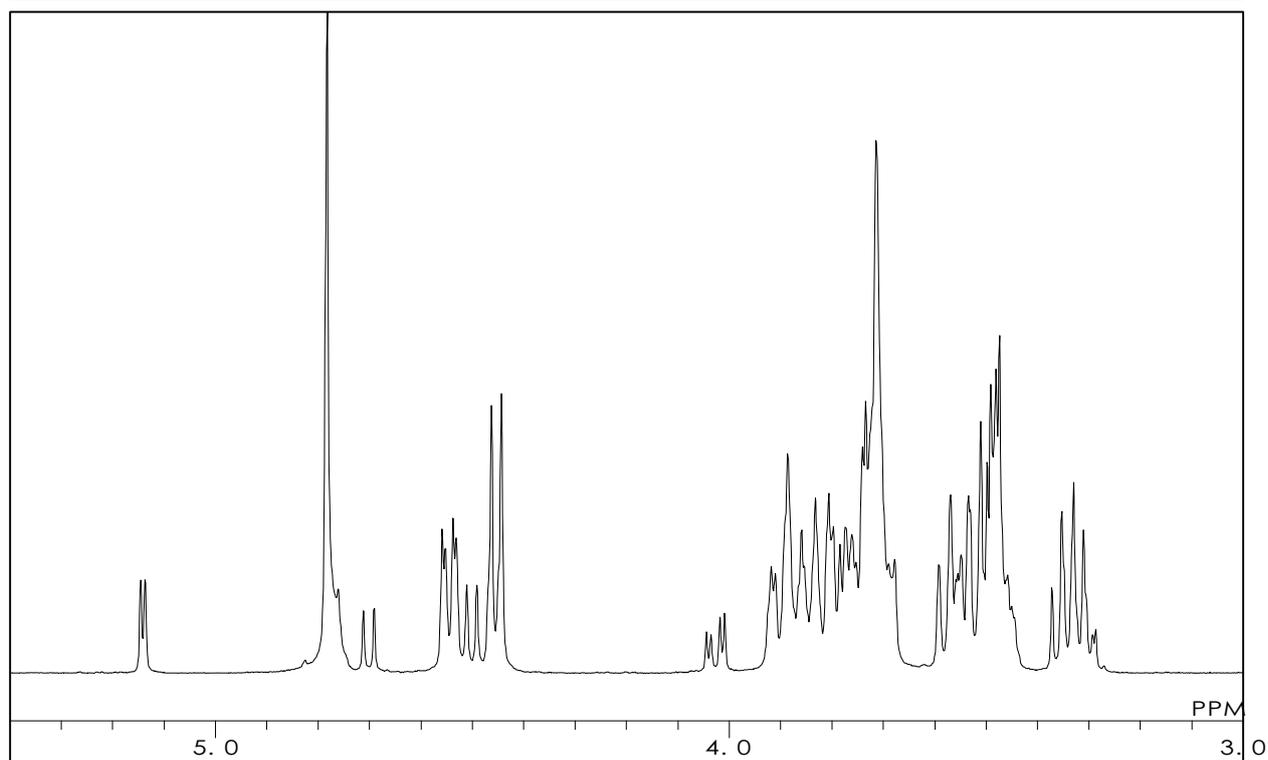
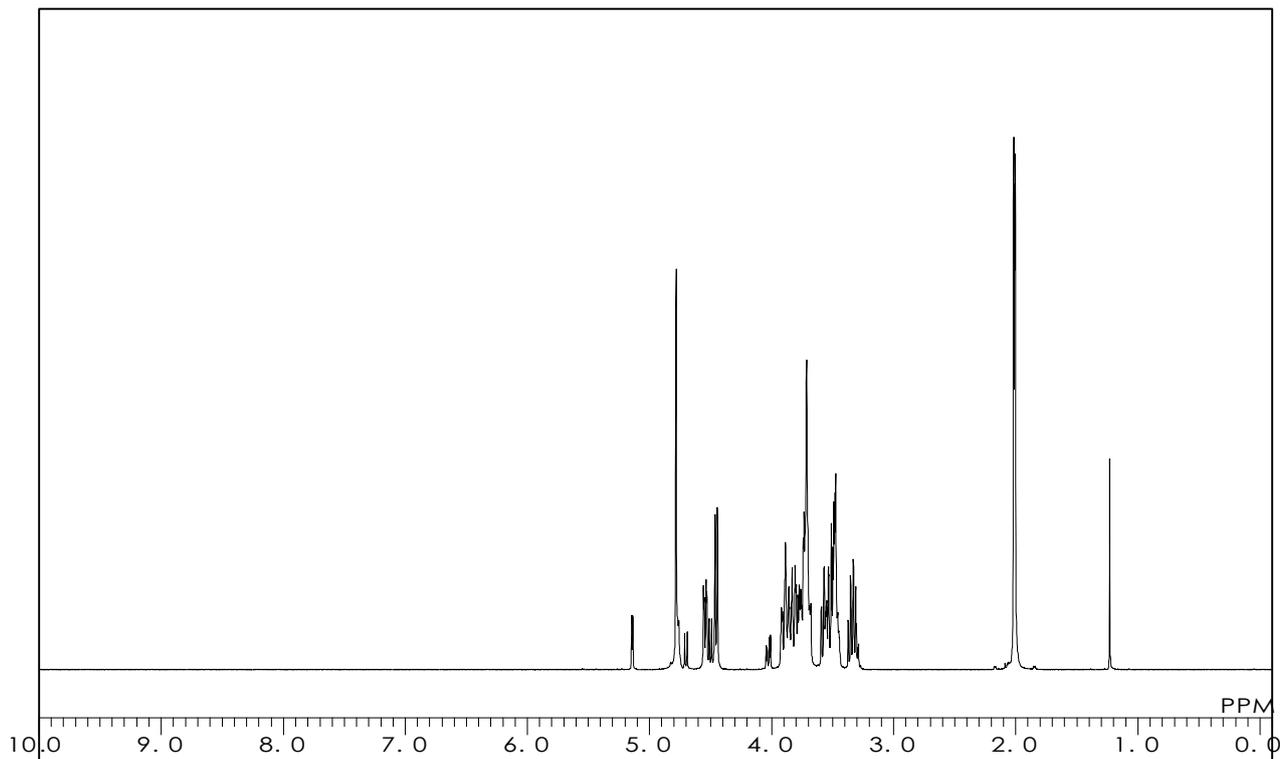
$C_{42}H_{65}N_3O_{34} = 1155.97$ [73603-40-4]



Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M2986

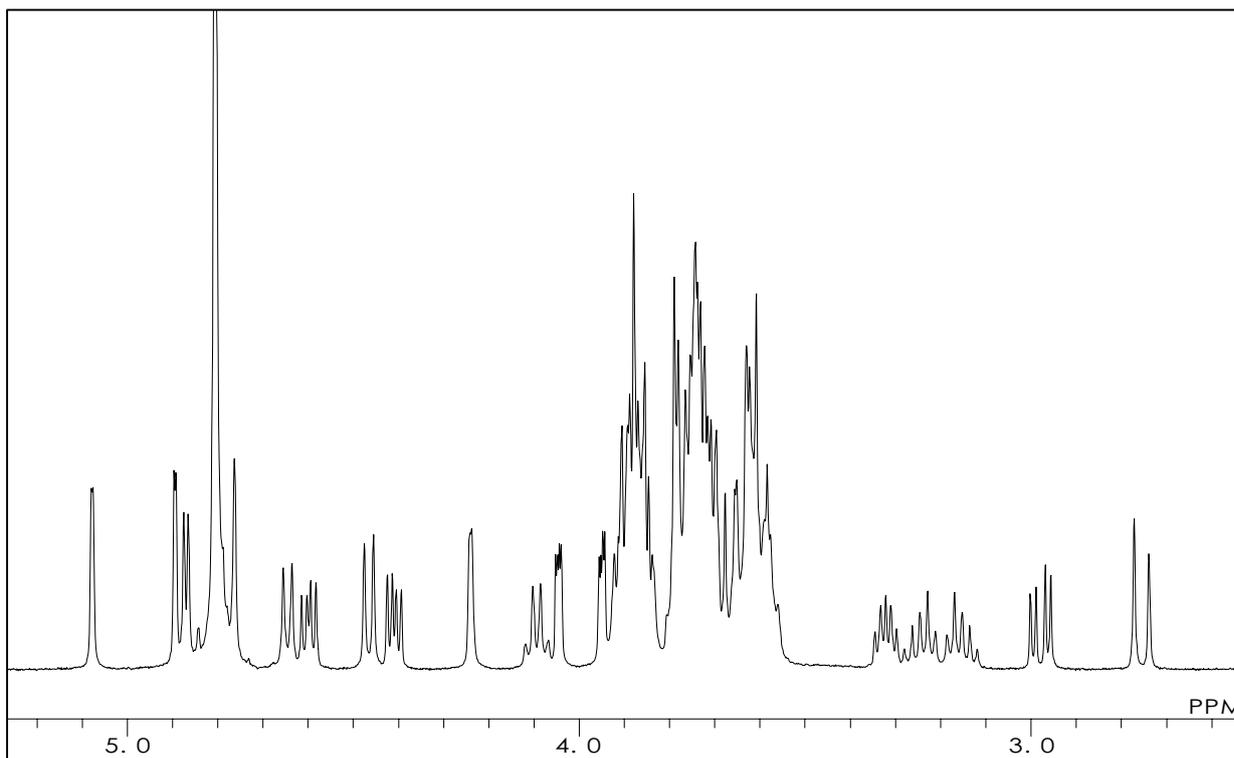
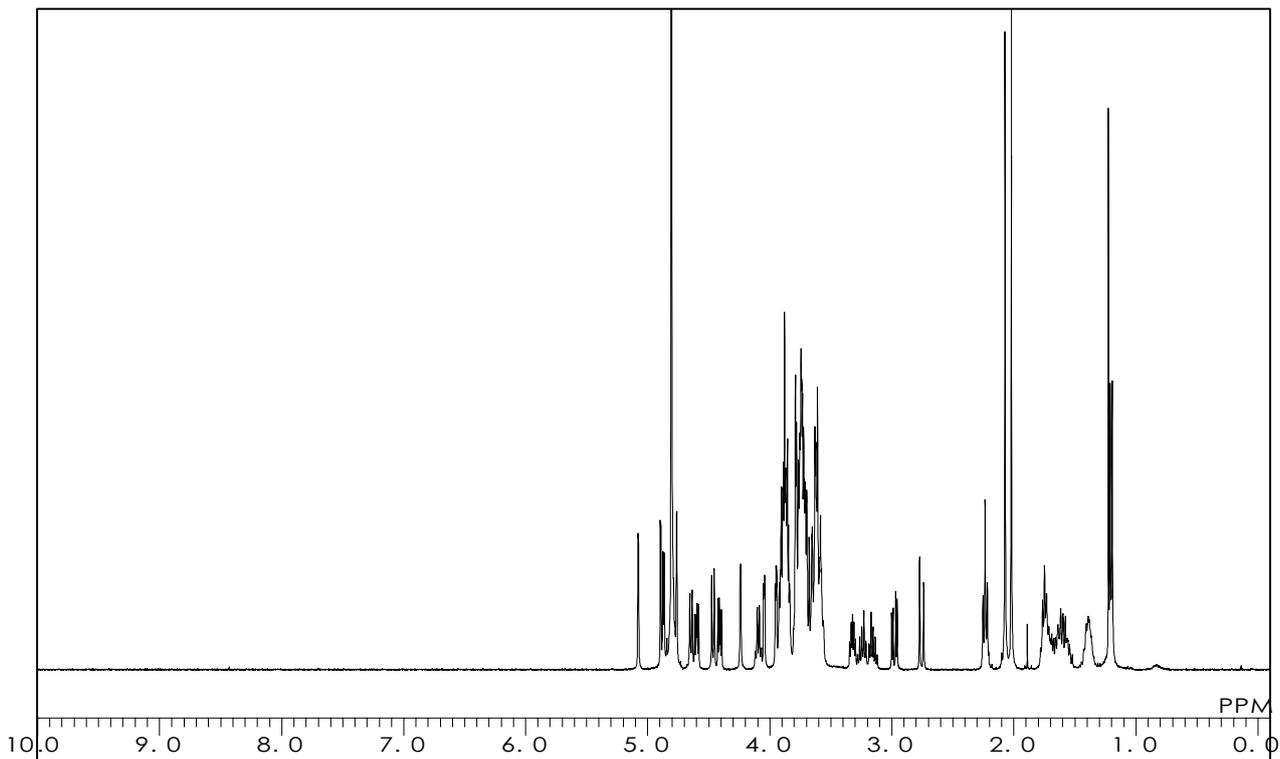
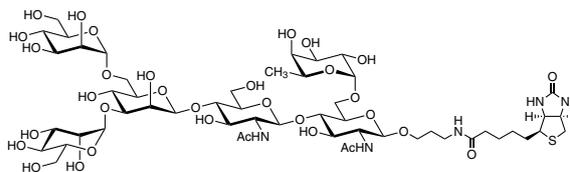
M3(Fuc₆)-biotin

C₅₃H₈₉N₅O₃₂S = 1340.36 [1995898-20-8]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 20.6 °C



M2985

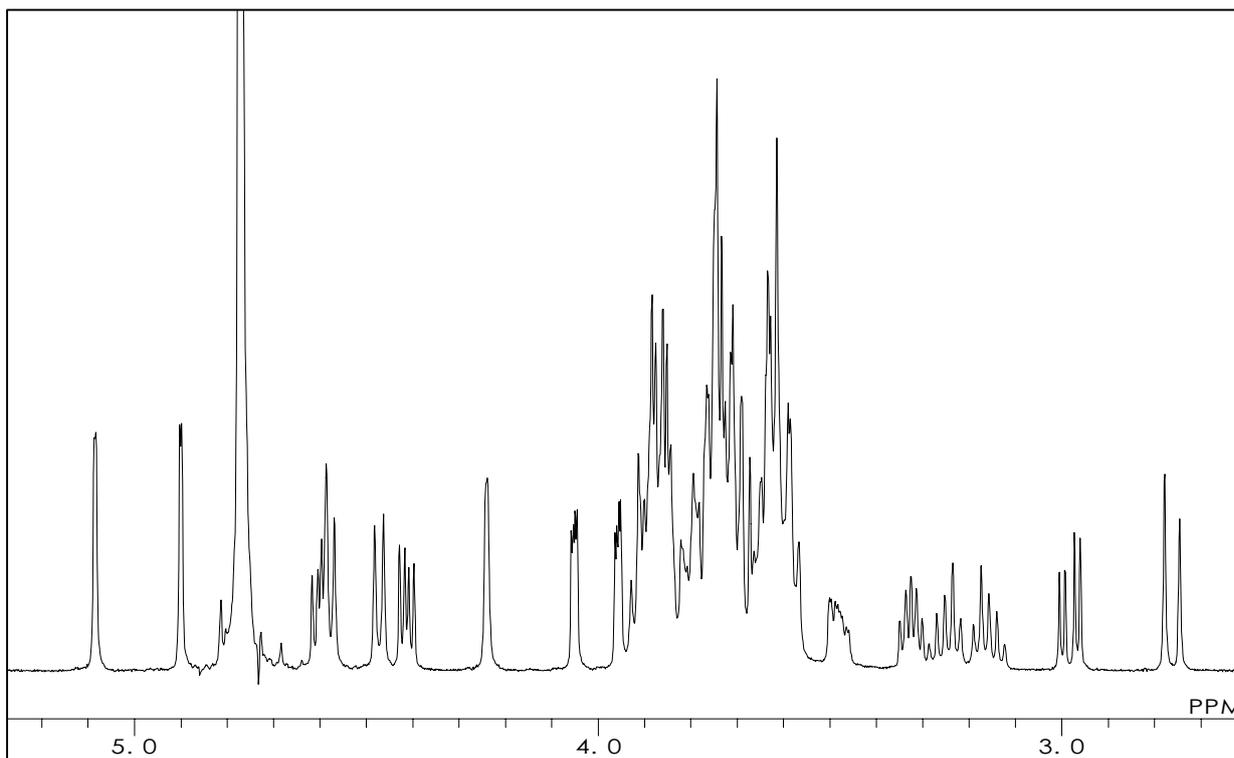
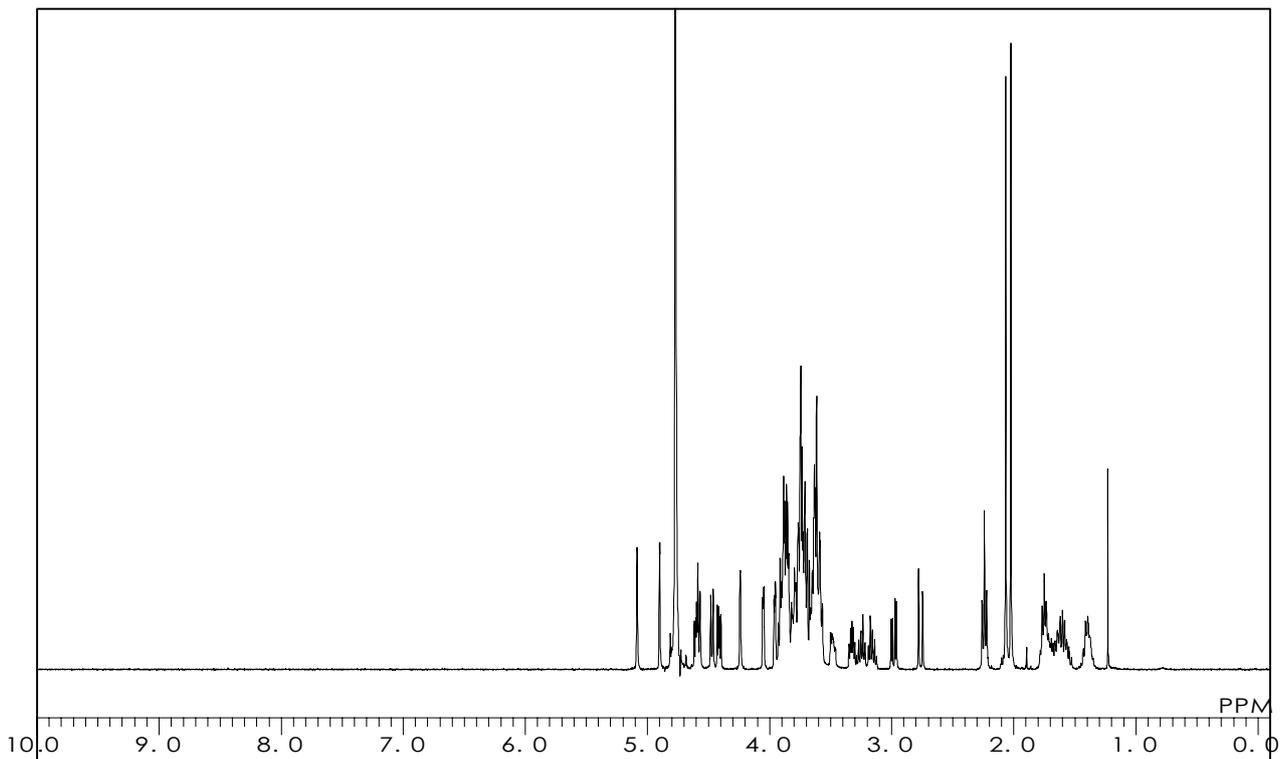
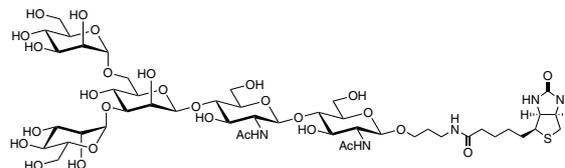
M3-biotin

$C_{47}H_{79}N_5O_{28}S = 1194.22$ [1995898-22-0]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.2 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M3086

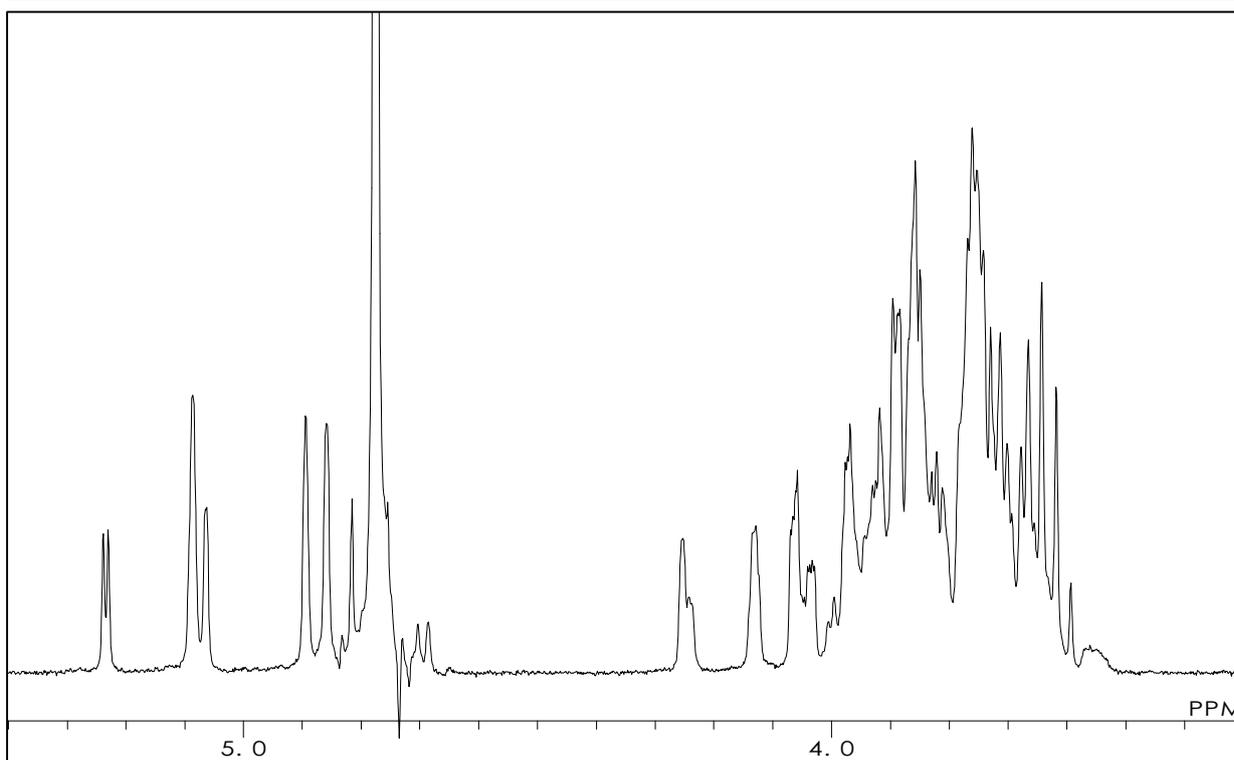
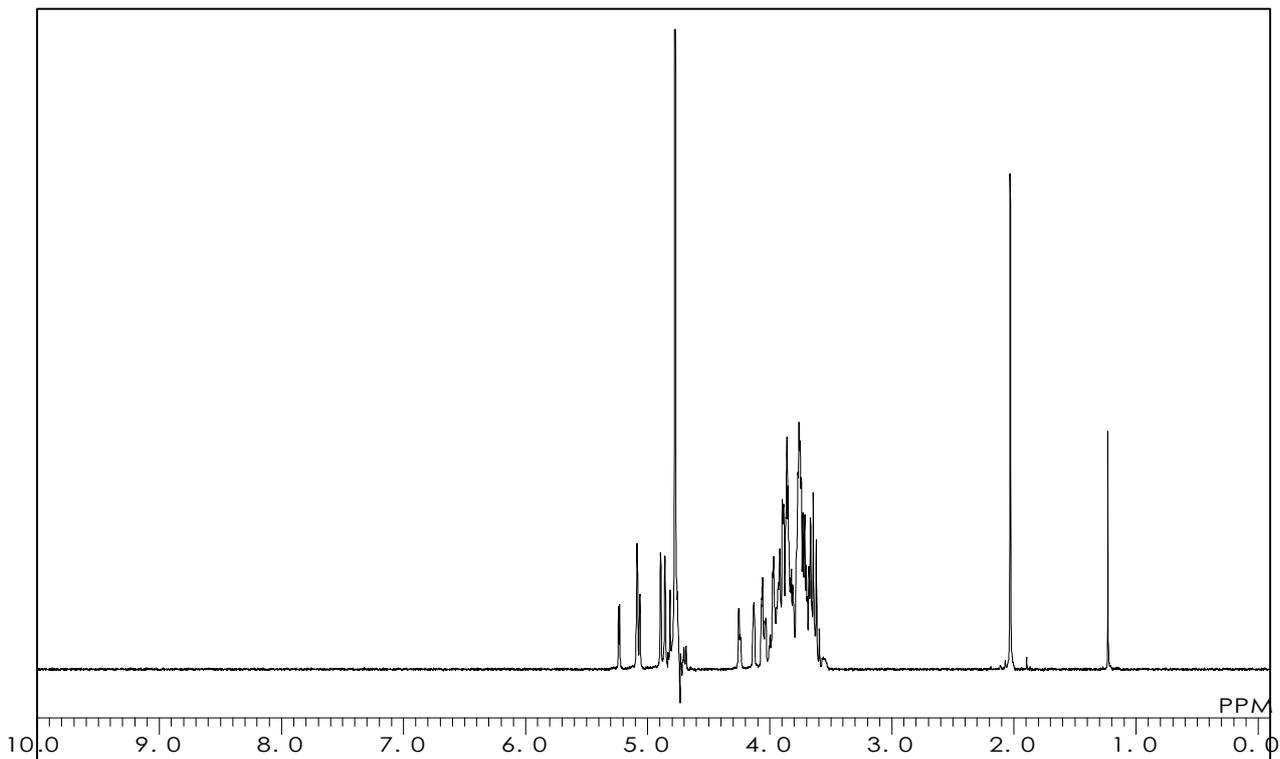
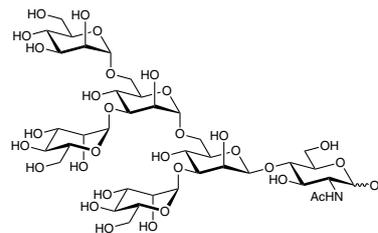
M5 glycan (GN₁ type)

C₃₈H₆₅NO₃₁ = 1031.91 [74385-50-5]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.1 °C



M2439

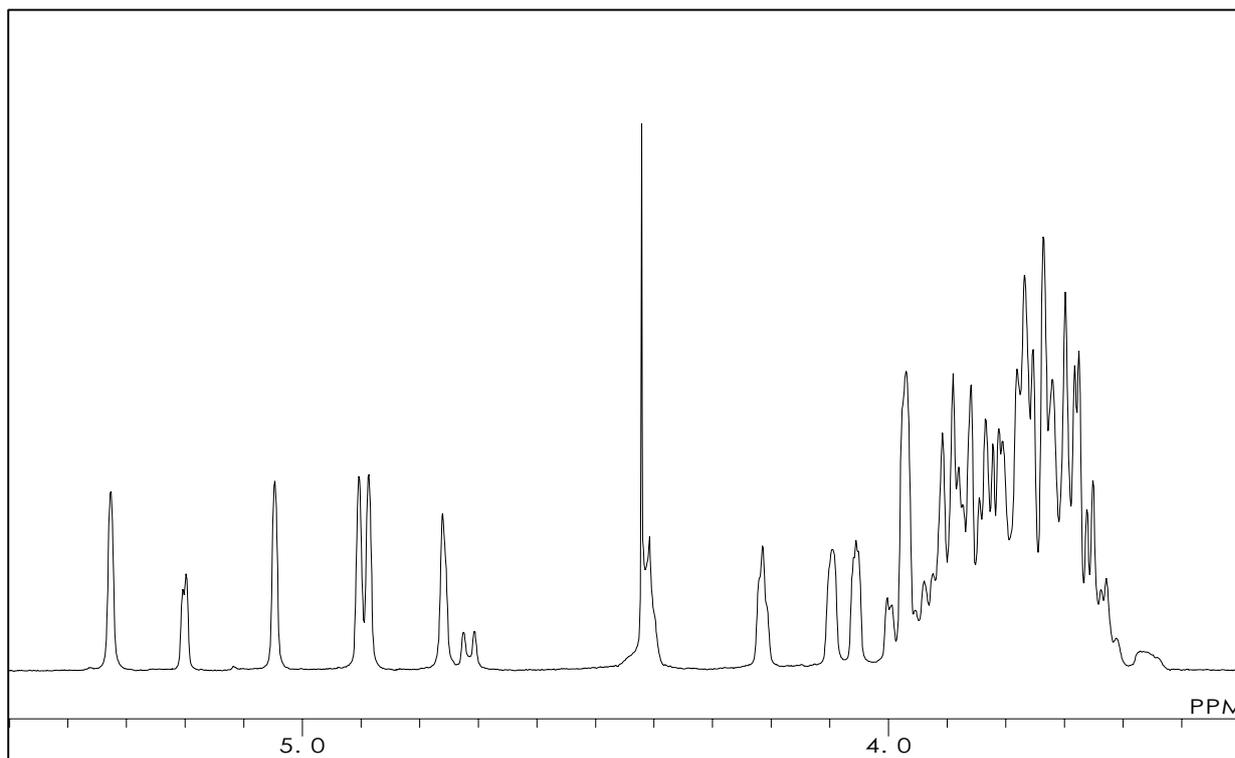
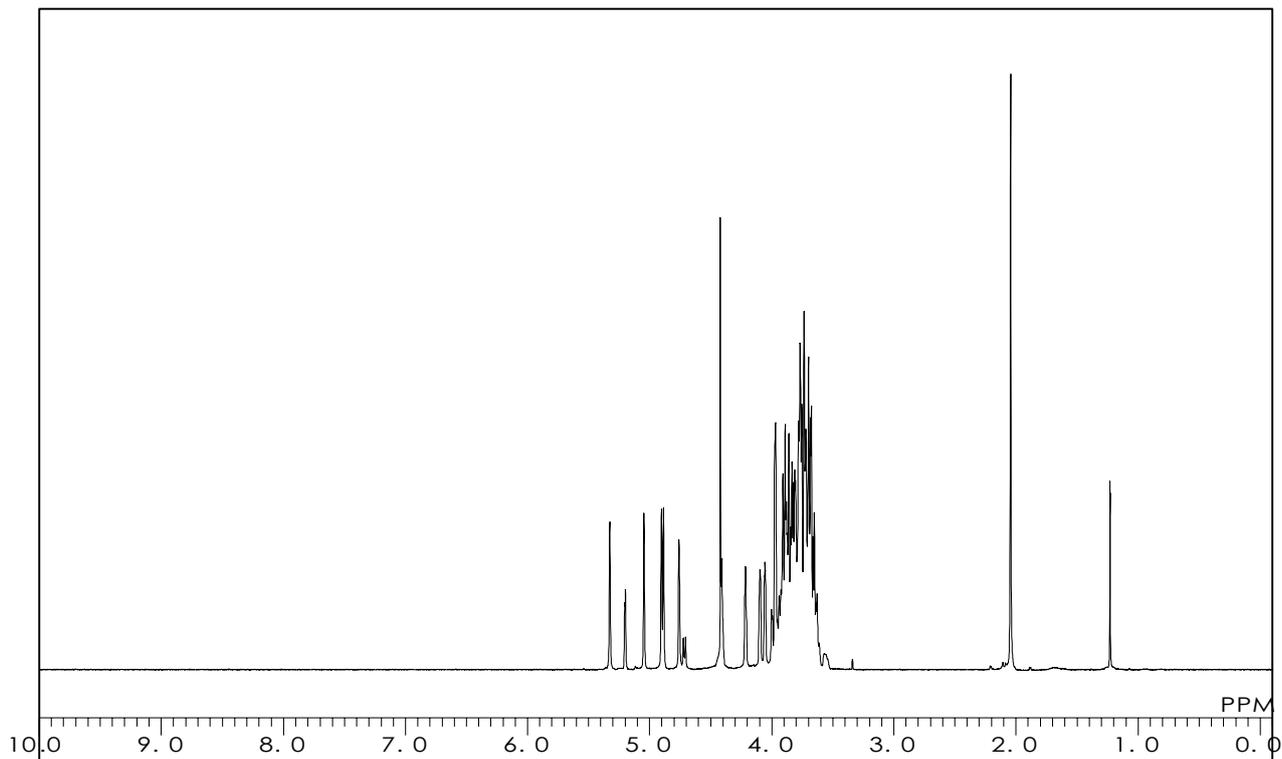
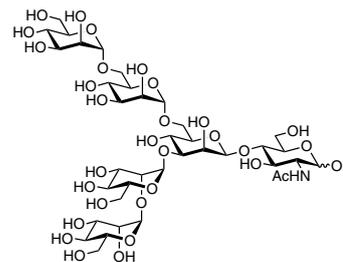
**Man α (1-2)Man α (1-3)[Man α (1-6)Man
 α (1-6)]Man β (1-4)GlcNAc**

$C_{38}H_{65}NO_{31} = 1031.91$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

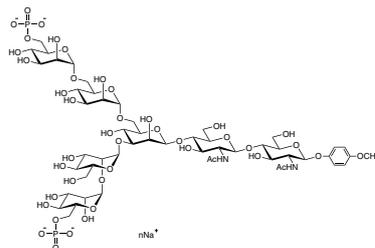
Measured Temperature : 60.0 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

M3087

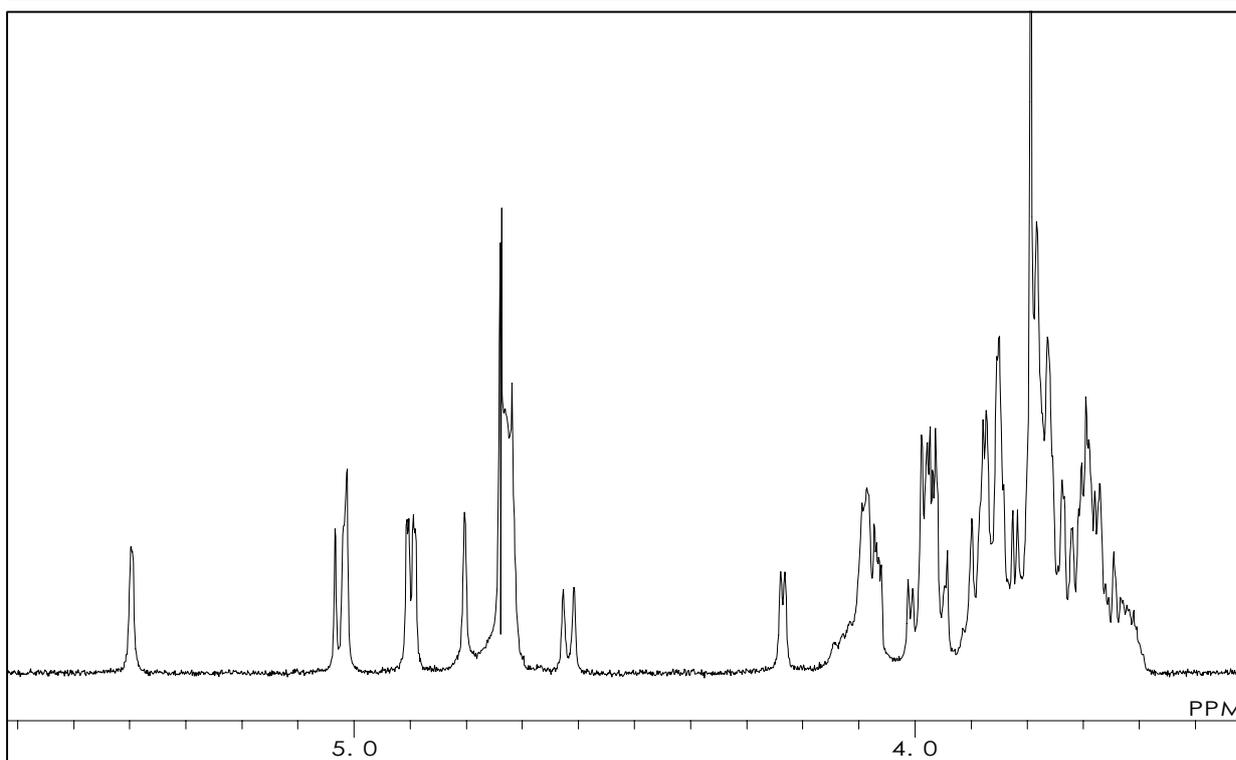
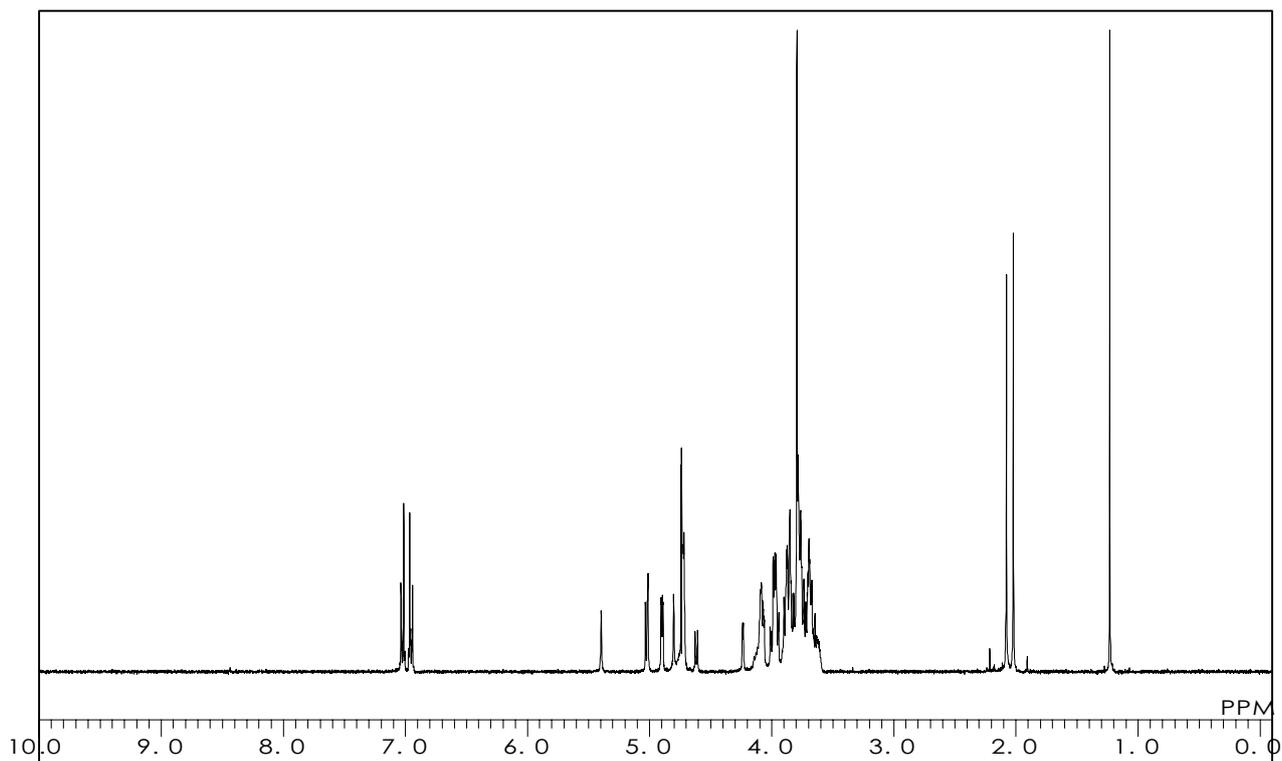
**Man[6P] α (1-2)Man α (1-3)[Man[6P]
 α (1-6)Man α (1-6)]Man
 β (1-4)GlcNAc β (1-4)GlcNAc- β -MP**



Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 27.4 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

N1065

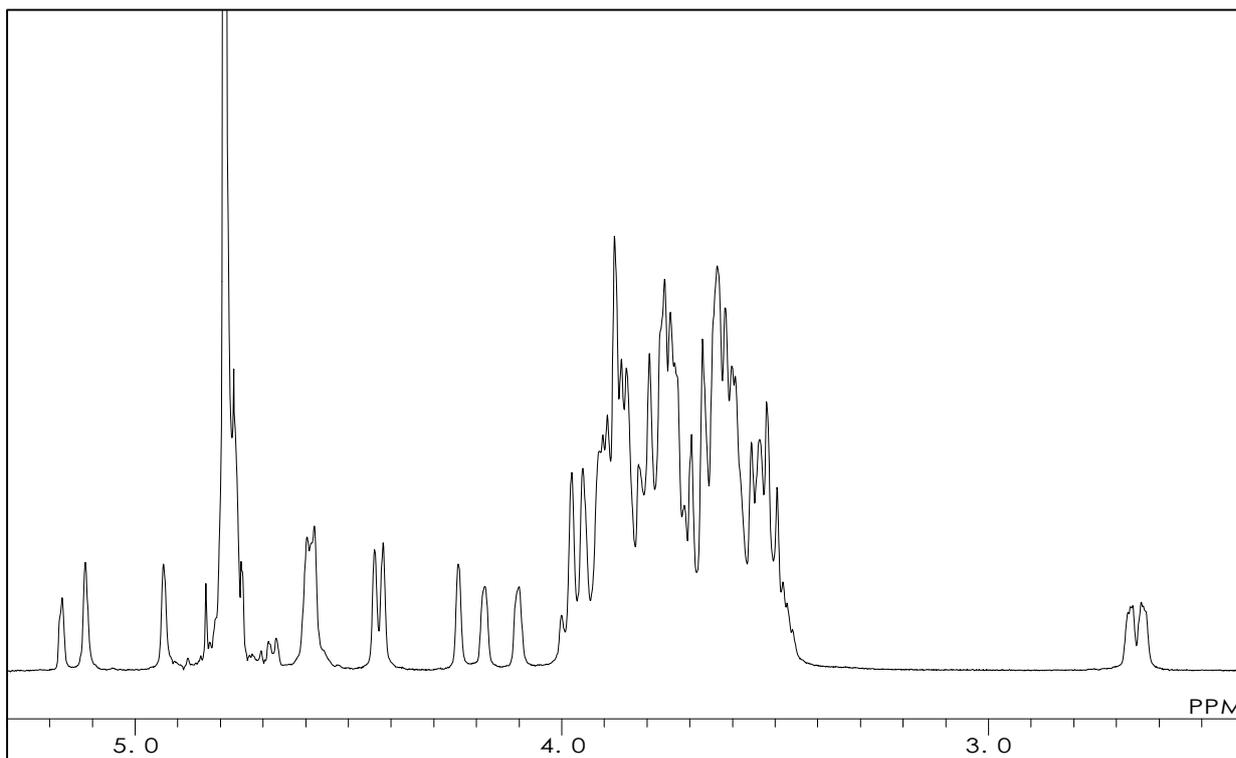
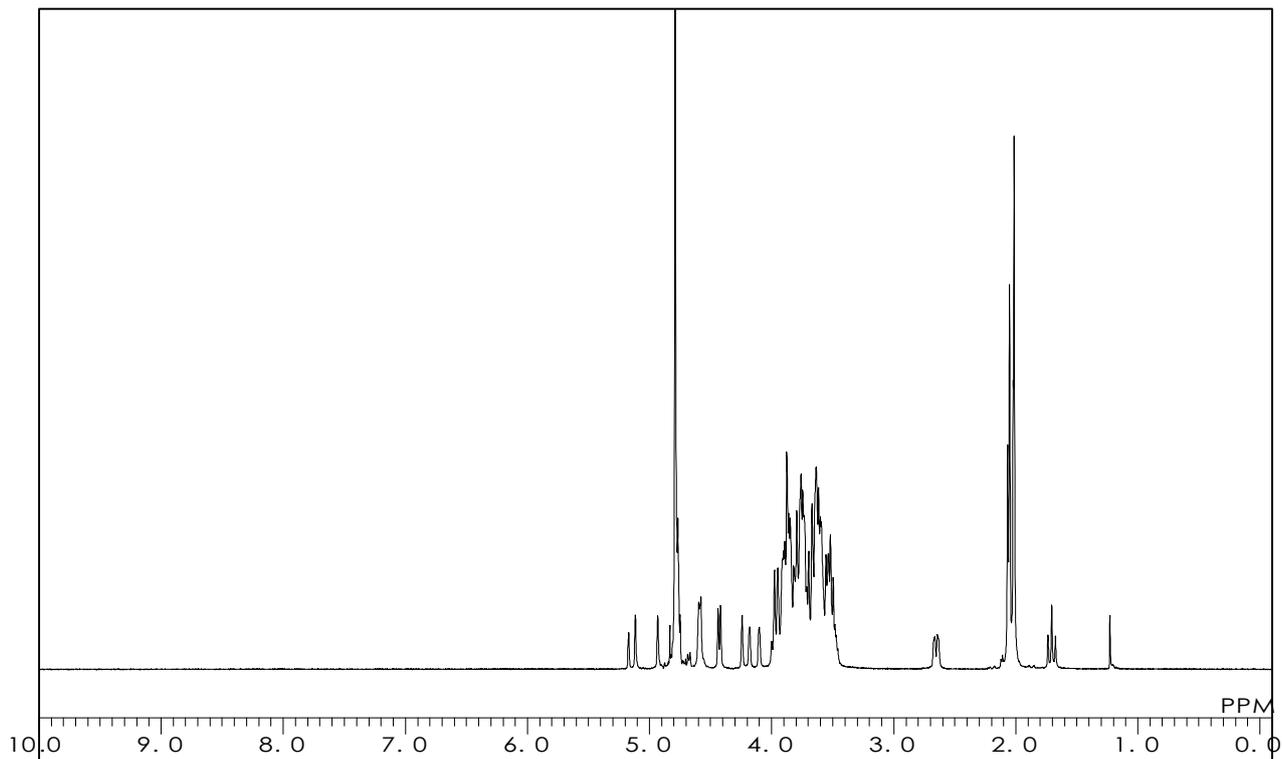
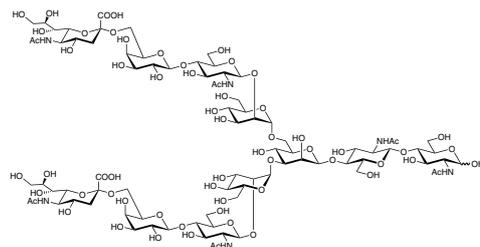
Neu5Ac α (2-6) N-Glycan

$C_{84}H_{138}N_6O_{62} = 2224.01$ [1125602-44-9]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.5 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N1073

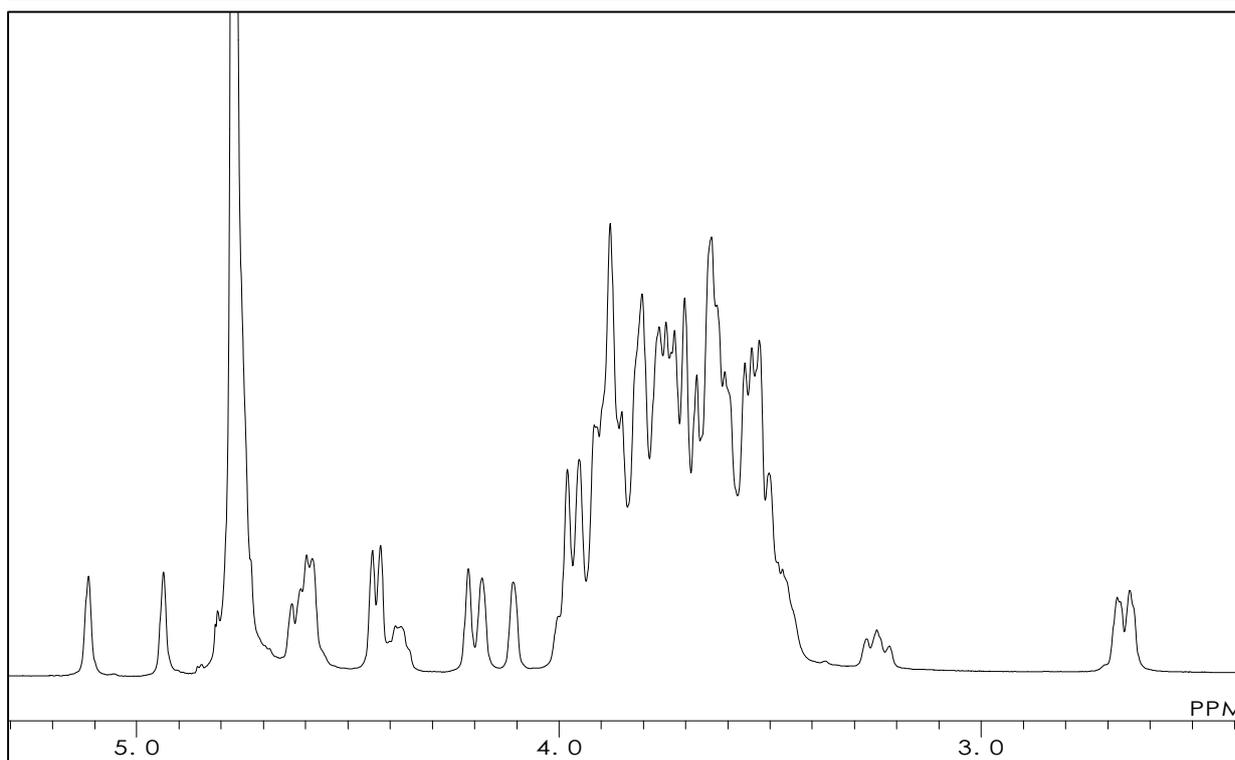
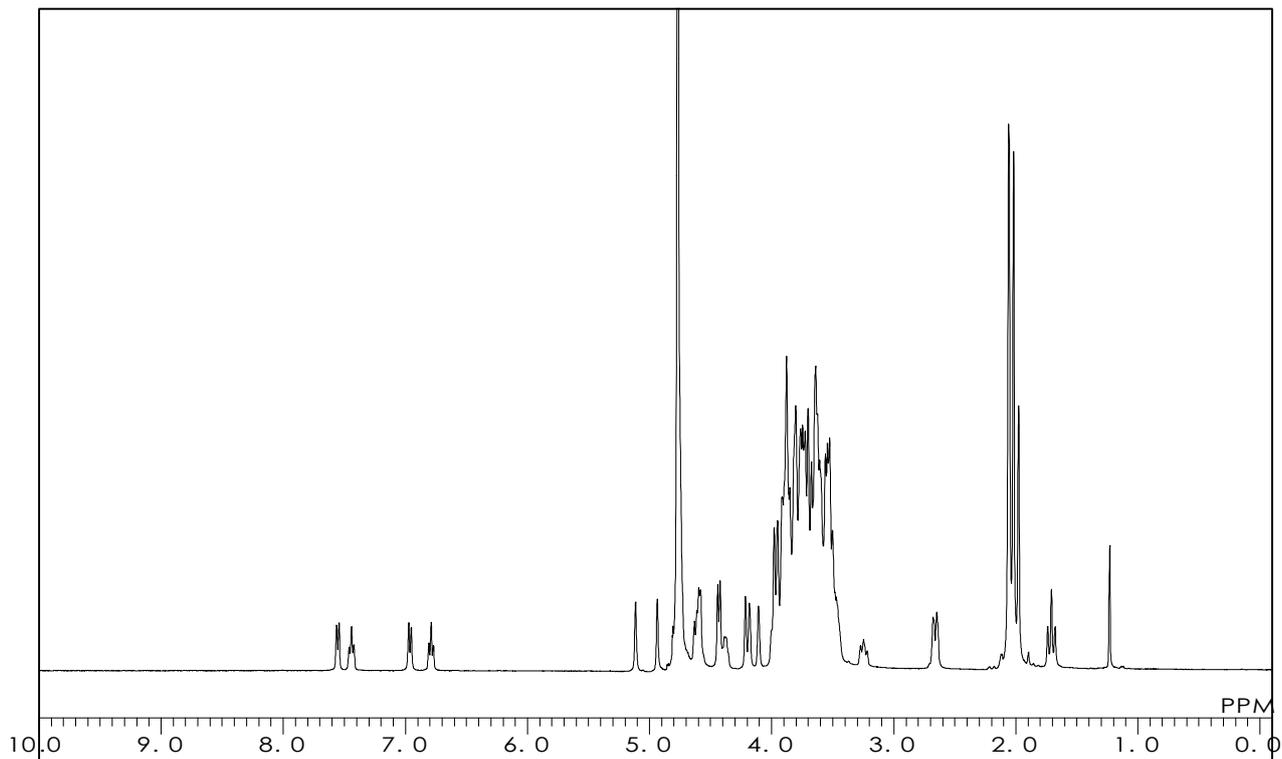
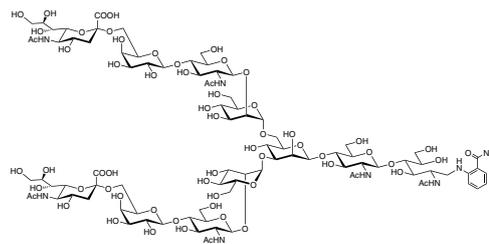
Neu5Ac α (2-6) N-Glycan 2AB

$C_{91}H_{146}N_8O_{62} = 2344.16$ [1107646-22-9]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.1 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

N1118

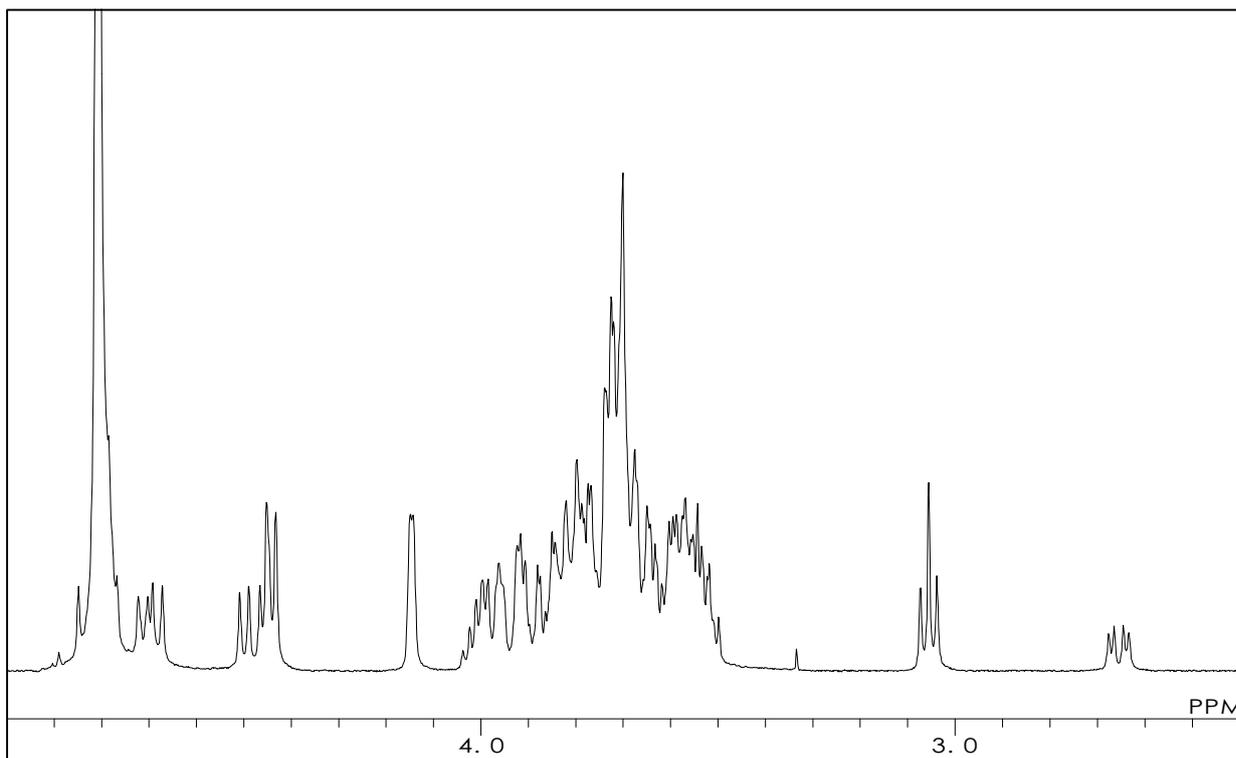
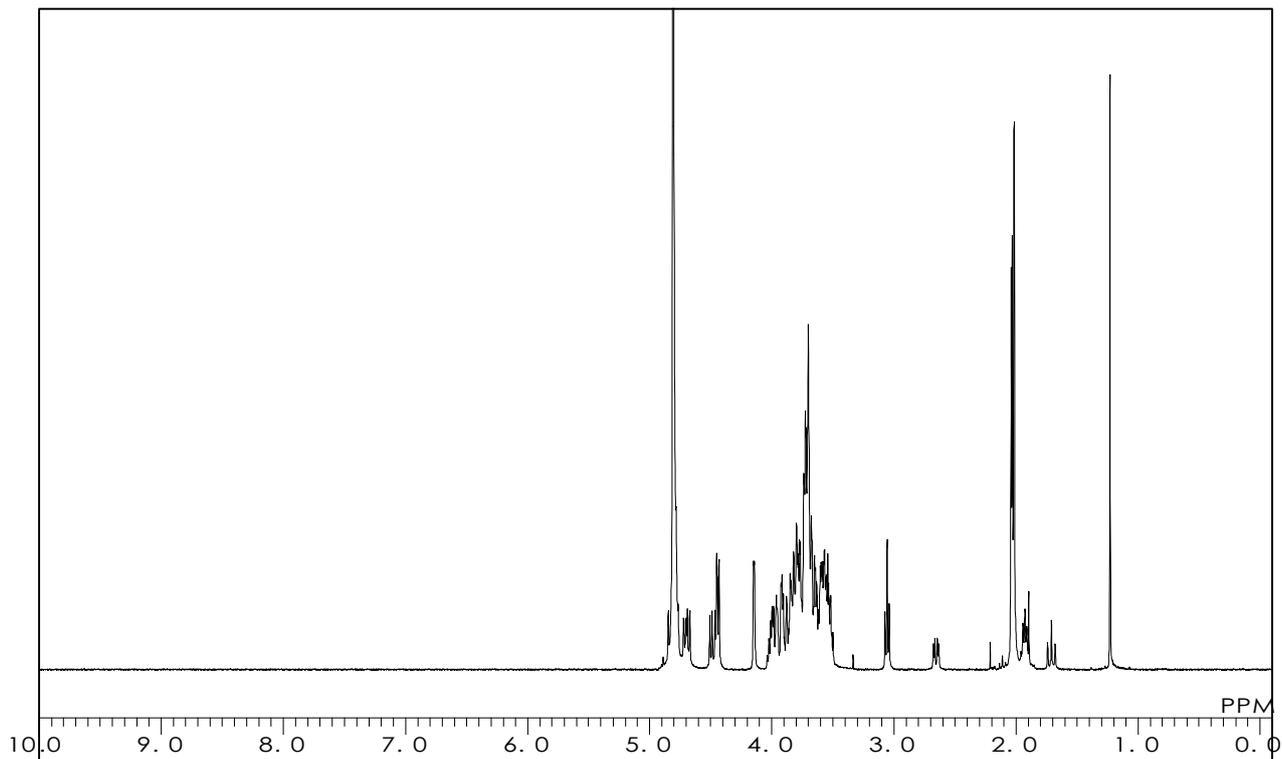
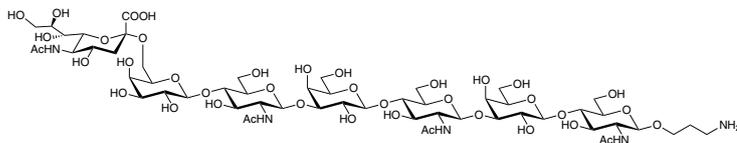
**Neu5Ac α (2-6)Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc
 β (1-3)Gal β (1-4)GlcNAc- β -propylamine**

$C_{56}H_{95}N_5O_{39} = 1462.37$ [1342819-25-3]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.1 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N1117

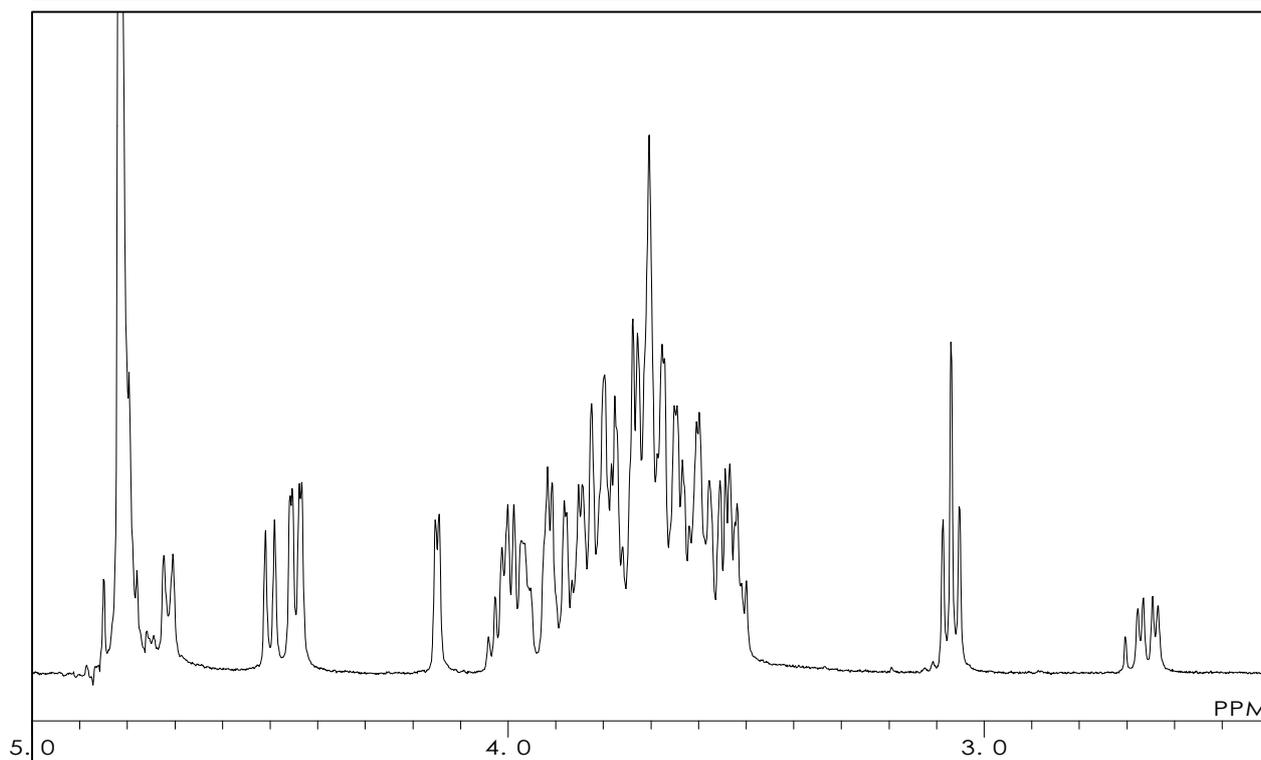
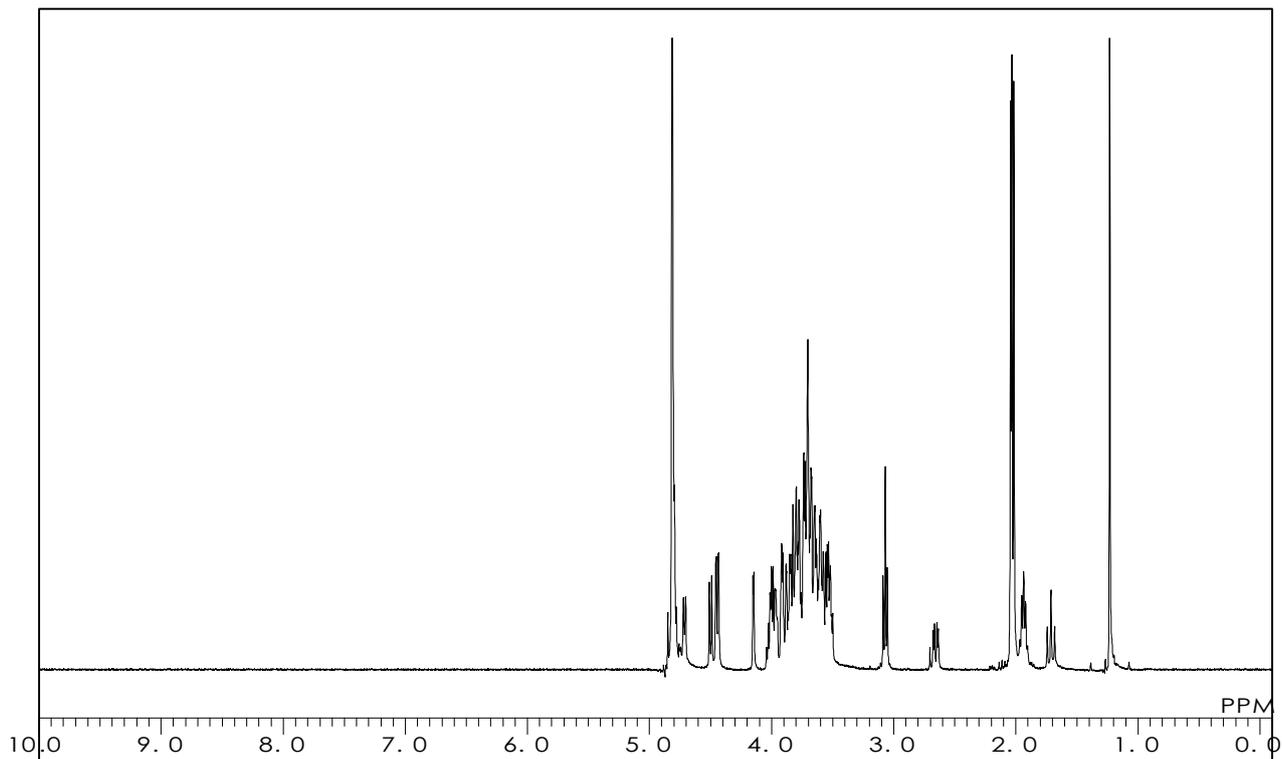
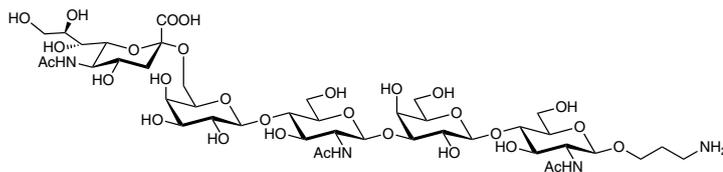
**Neu5Ac α (2-6)Gal β (1-4)GlcNAc β (1-3)Gal
 β (1-4)GlcNAc- β -propylamine**

$C_{42}H_{72}N_4O_{29} = 1097.04$ [1015760-62-9]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.8 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

N1064

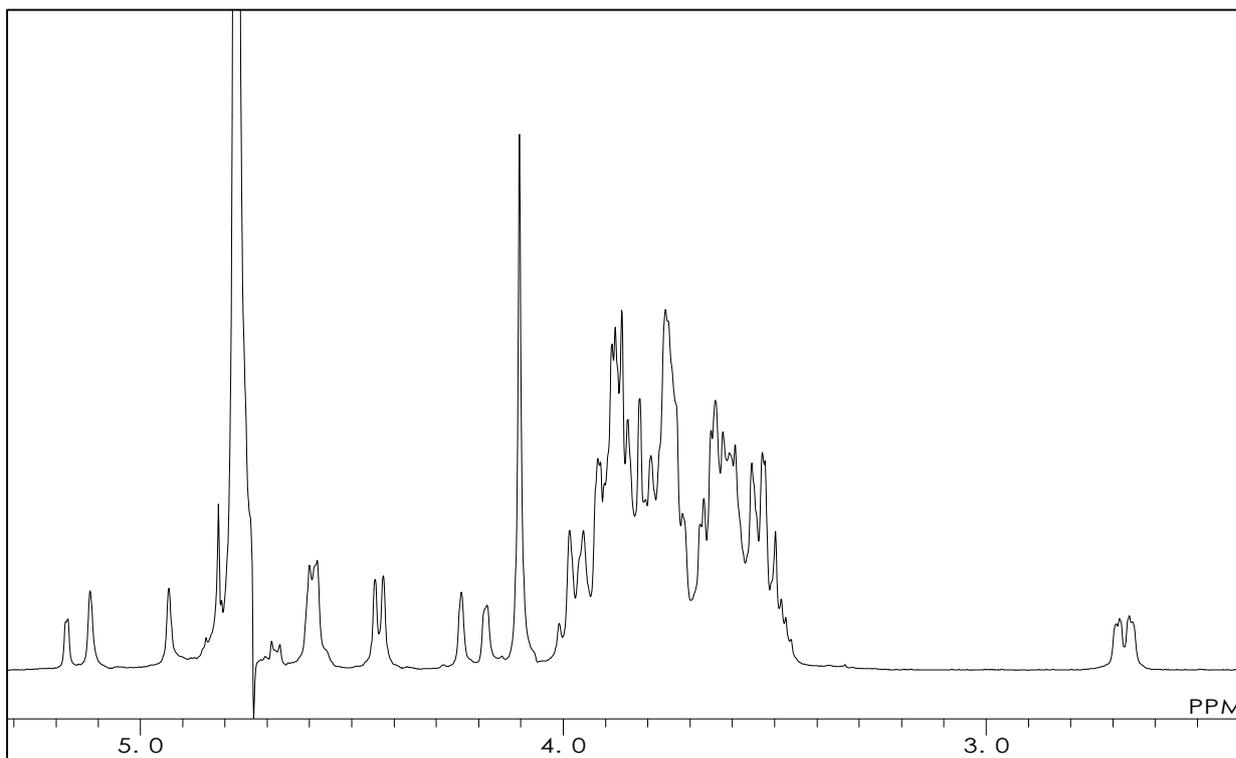
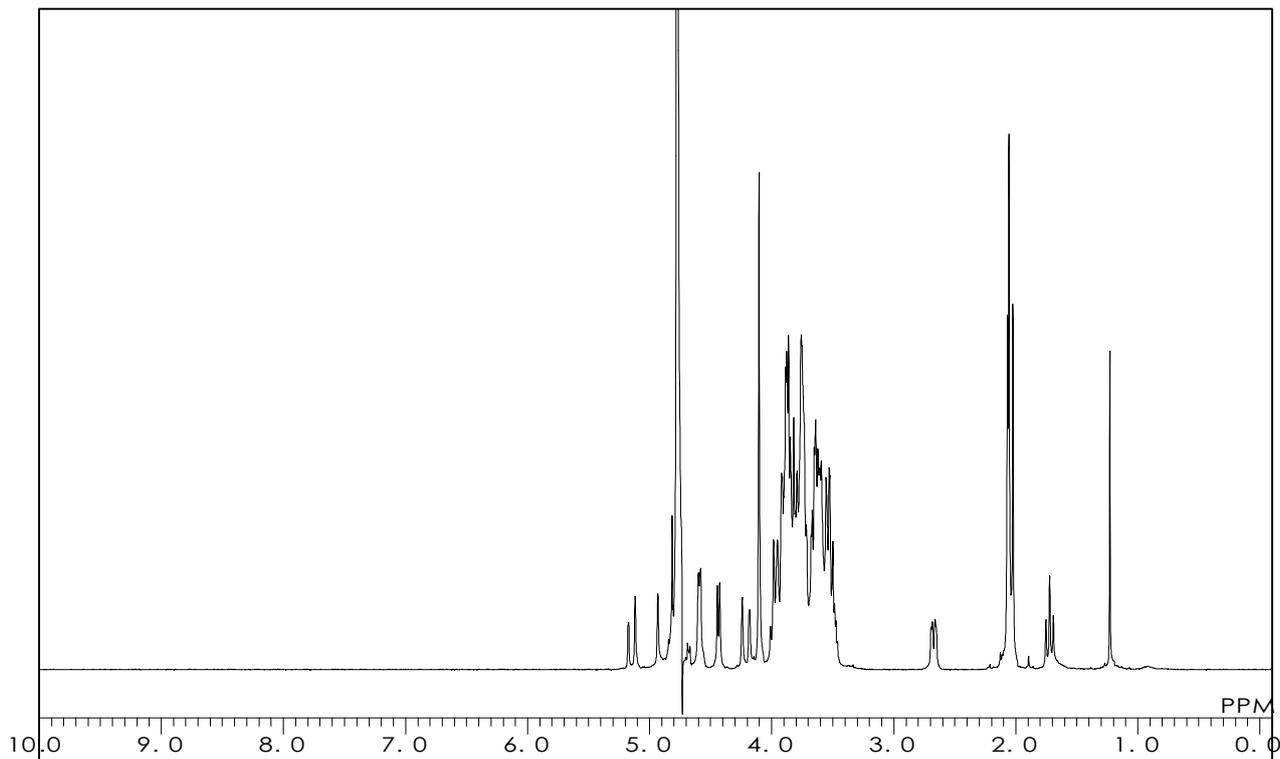
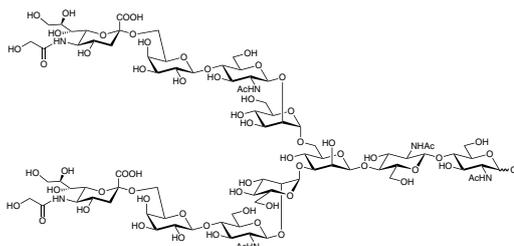
Neu5Gc α (2-6) N-Glycan

$C_{84}H_{138}N_6O_{64} = 2256.01$ [125139-41-5]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.8 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

N1075

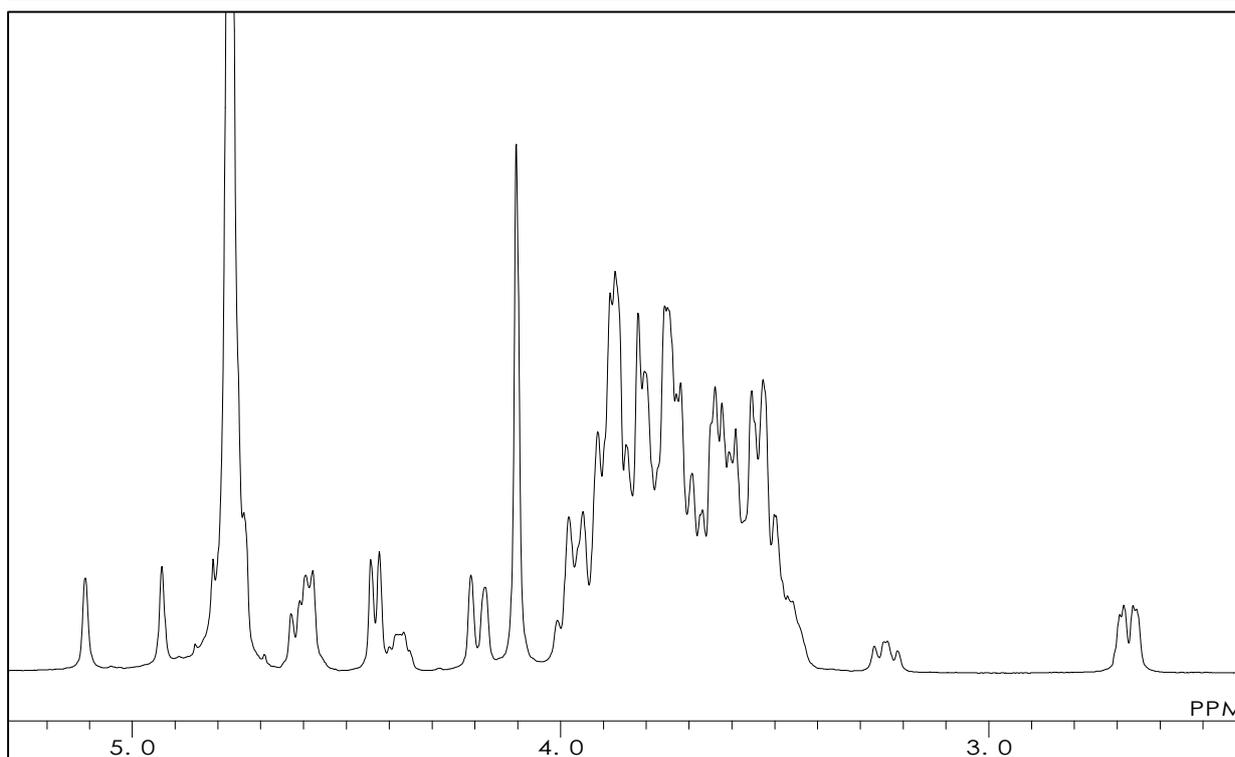
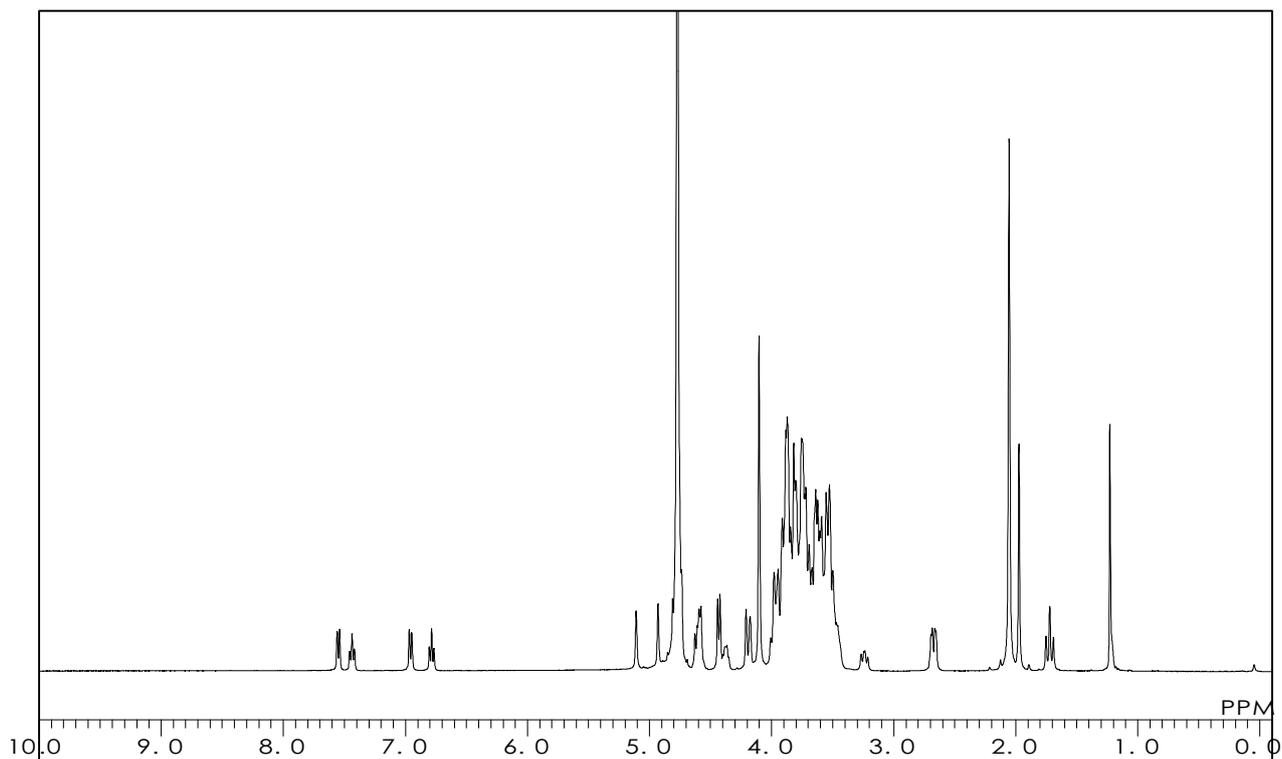
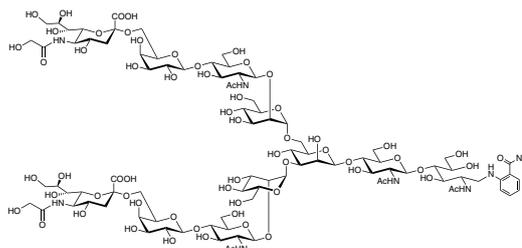
Neu5Gc α (2-6) N-Glycan 2AB

$C_{91}H_{146}N_8O_{64} = 2376.16$

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 24.1 °C



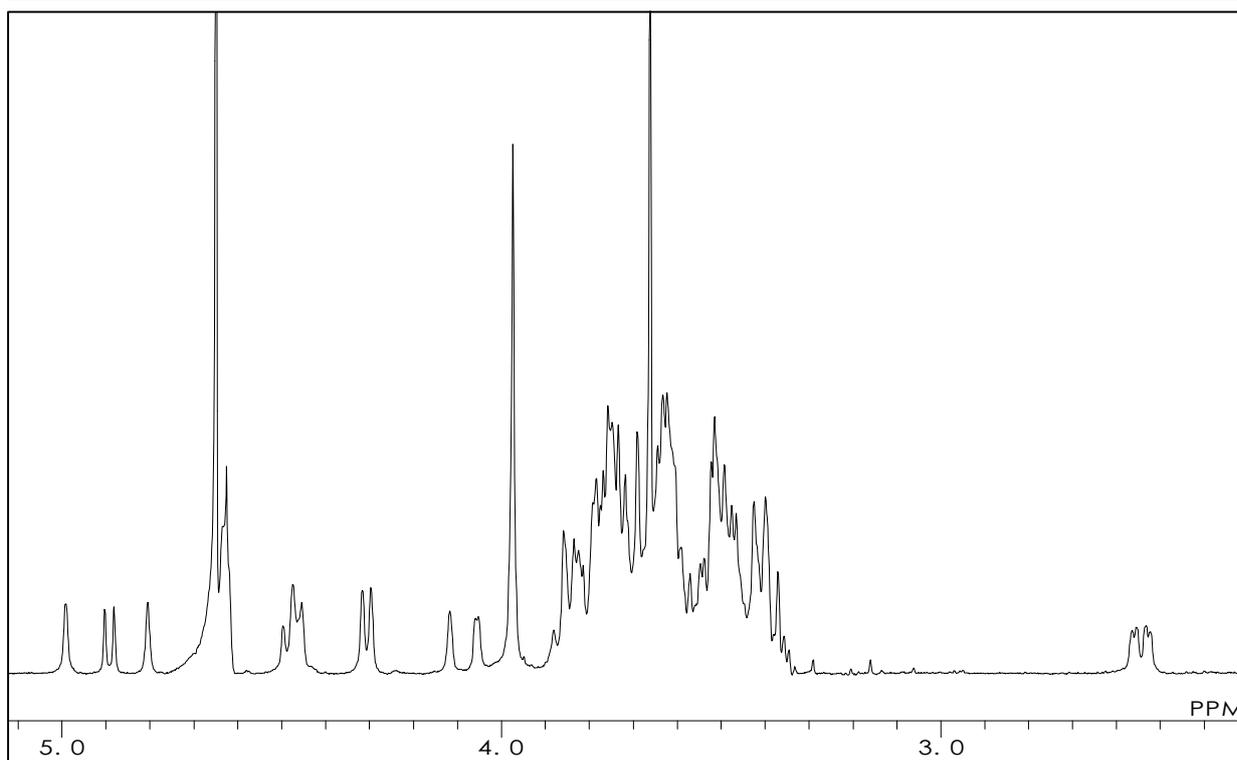
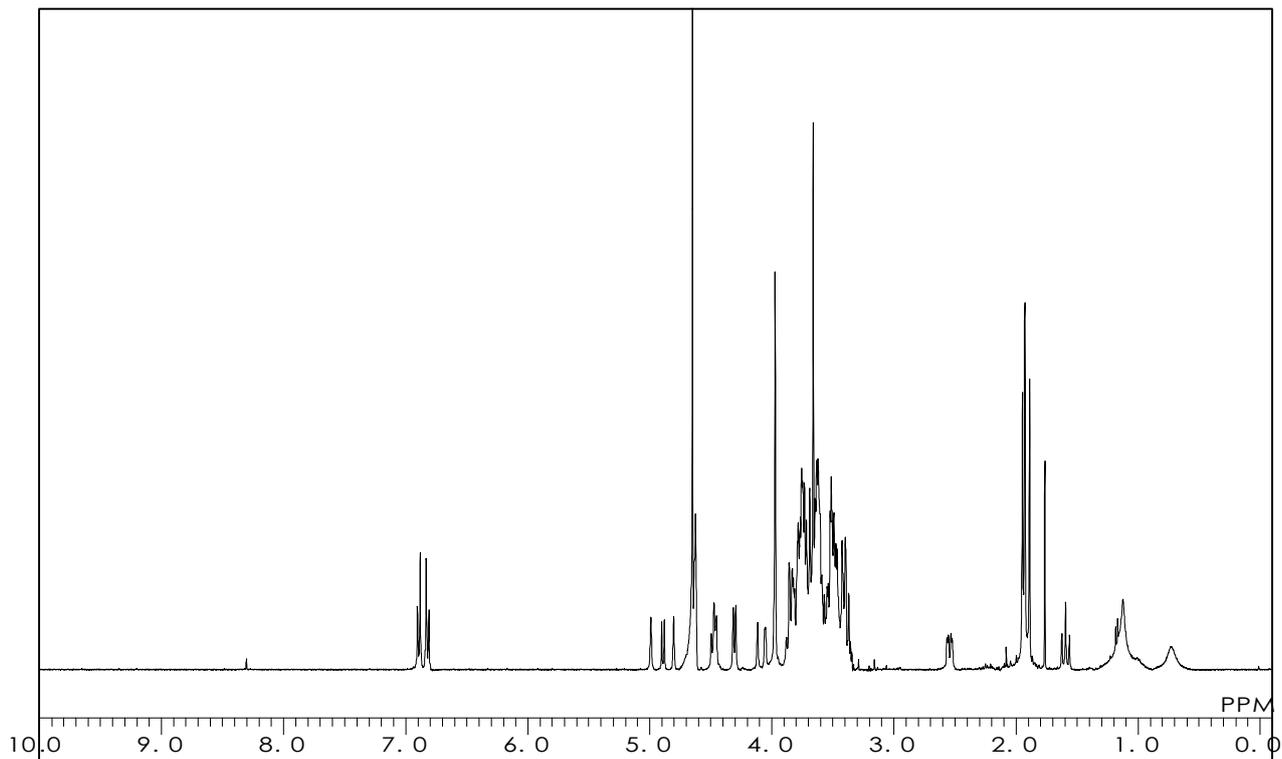
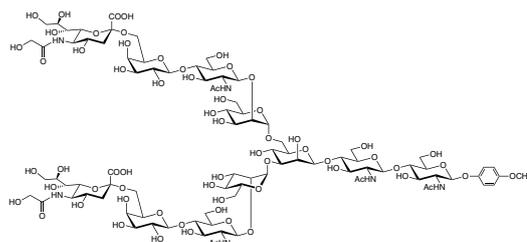
N1046

**Neu5Gc α (2-6)
N-Glycan MP Glycoside**

$C_{91}H_{144}N_6O_{65} = 2362.13$

Solvent : D_2O

Measured Temperature : 23.3 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

P2027

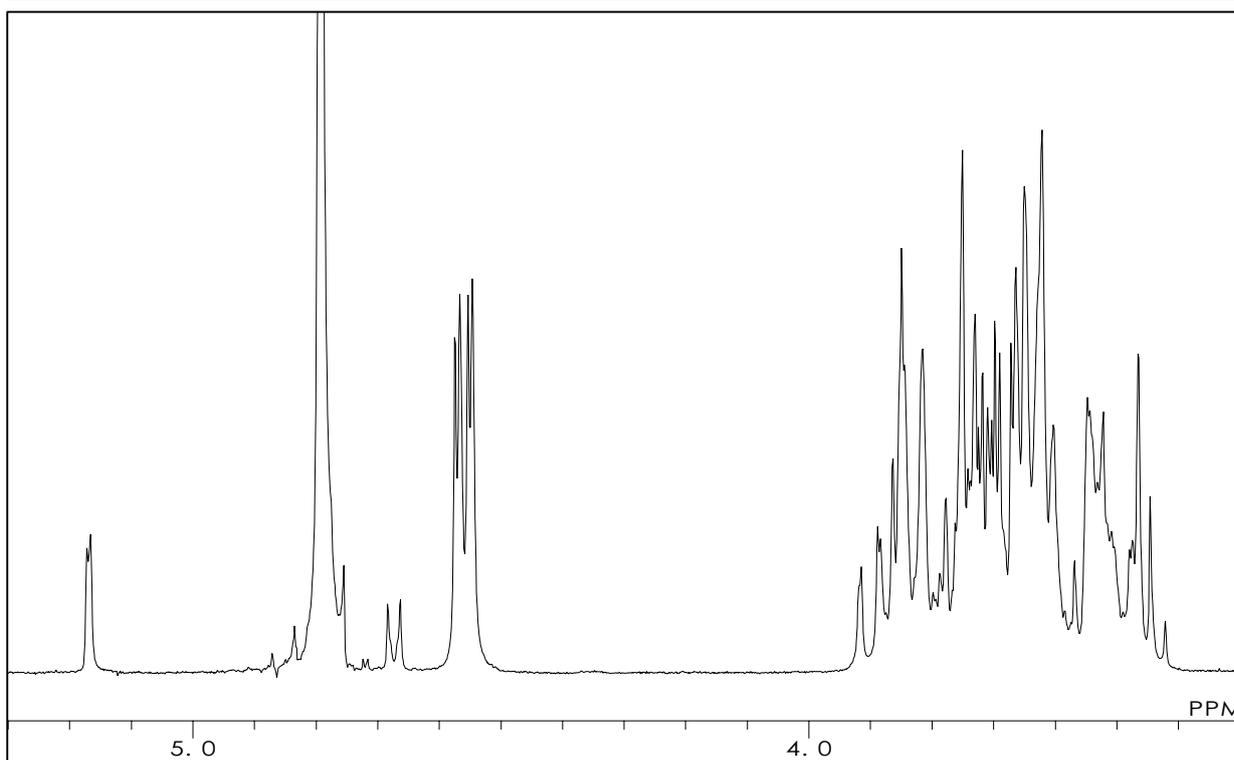
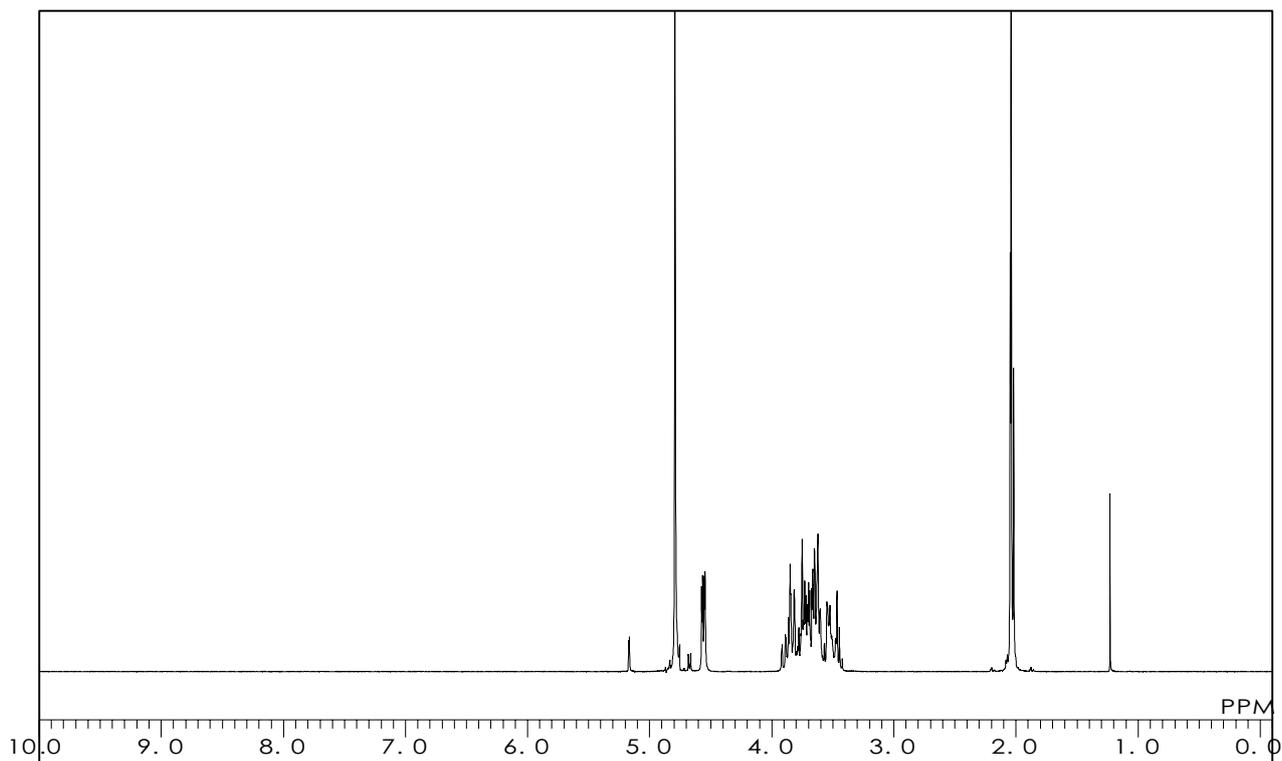
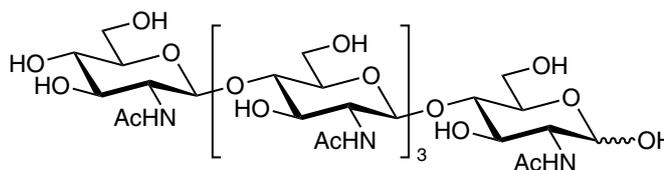
N,N',N'',N''',N''''-Pentaacetylchitopentaose

$C_{40}H_{67}N_5O_{26} = 1033.99$ [36467-68-2]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 22.1 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

S0849

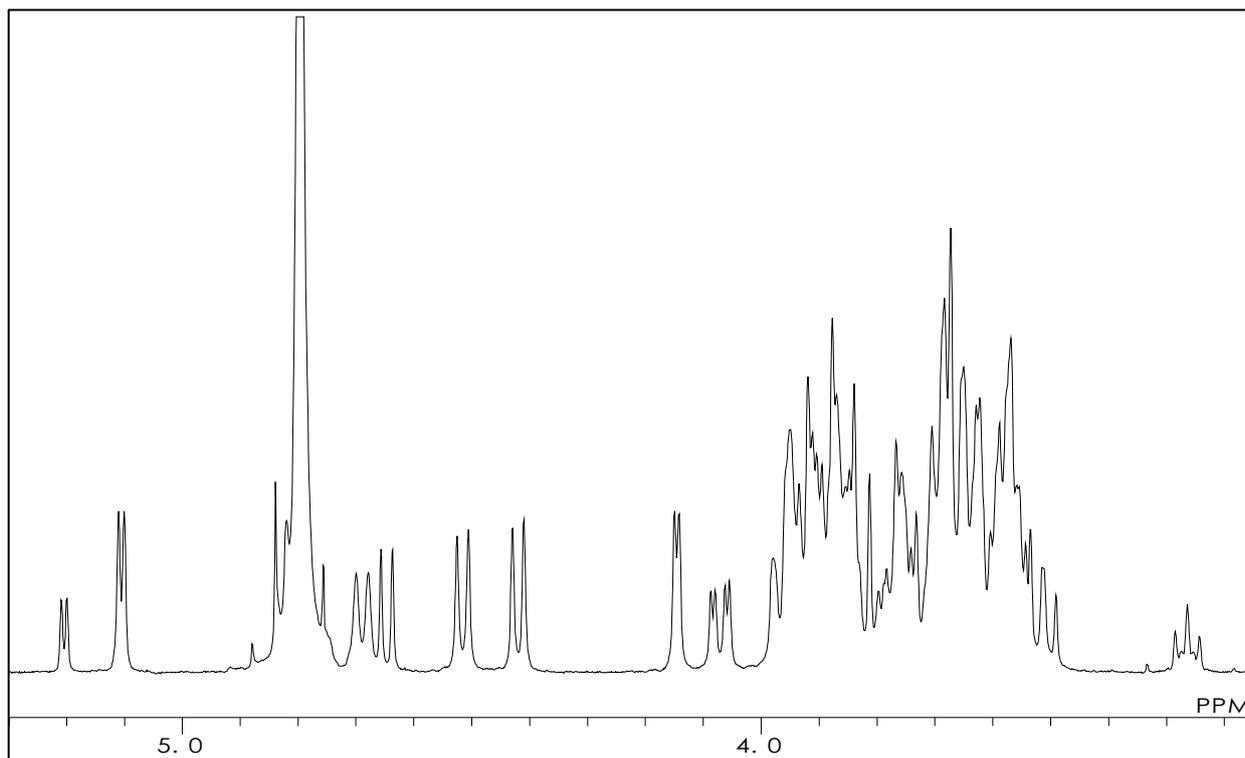
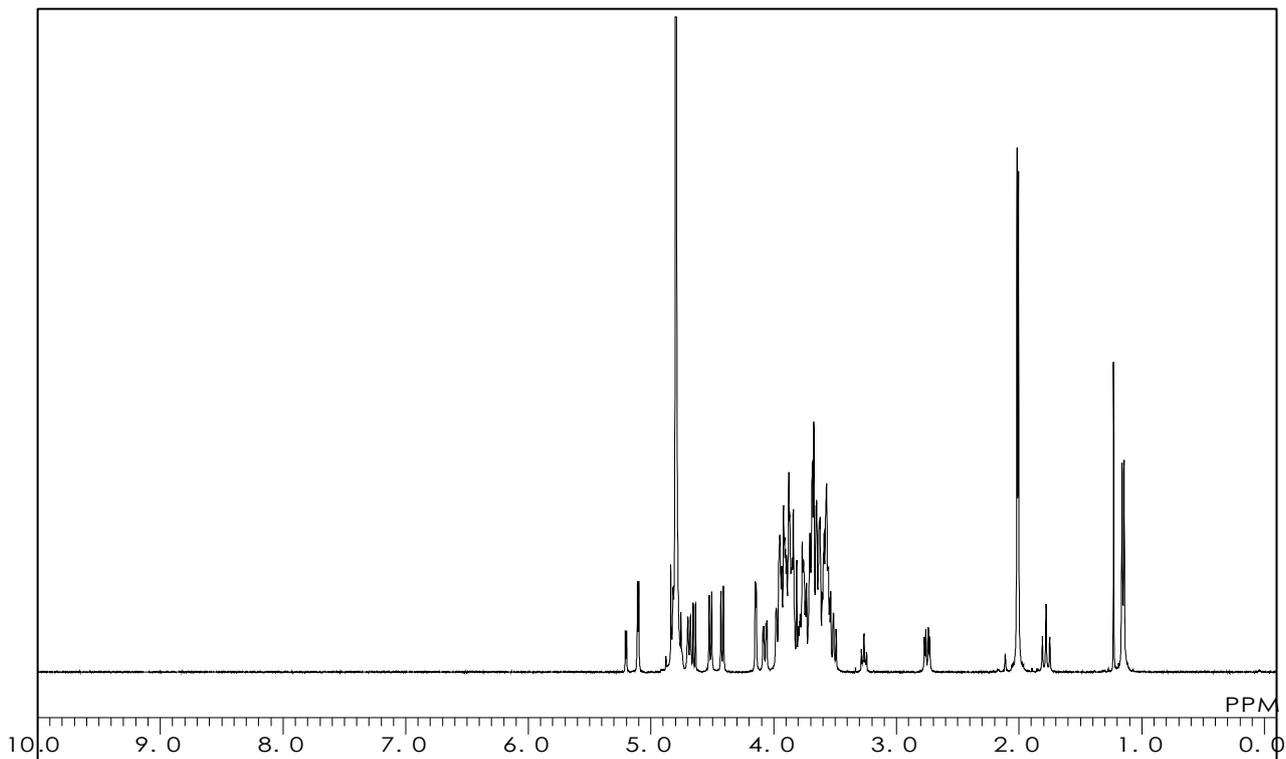
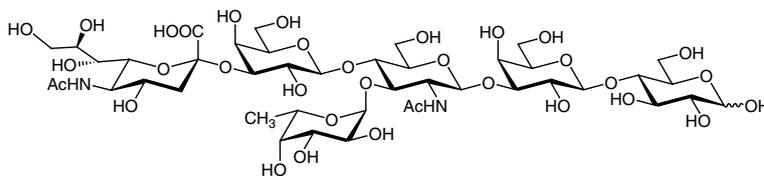
Sialyl Lewis X-Lactose

$C_{43}H_{72}N_2O_{33} = 1145.03$ [127923-85-7]

Solvent : D_2O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 21.3 °C



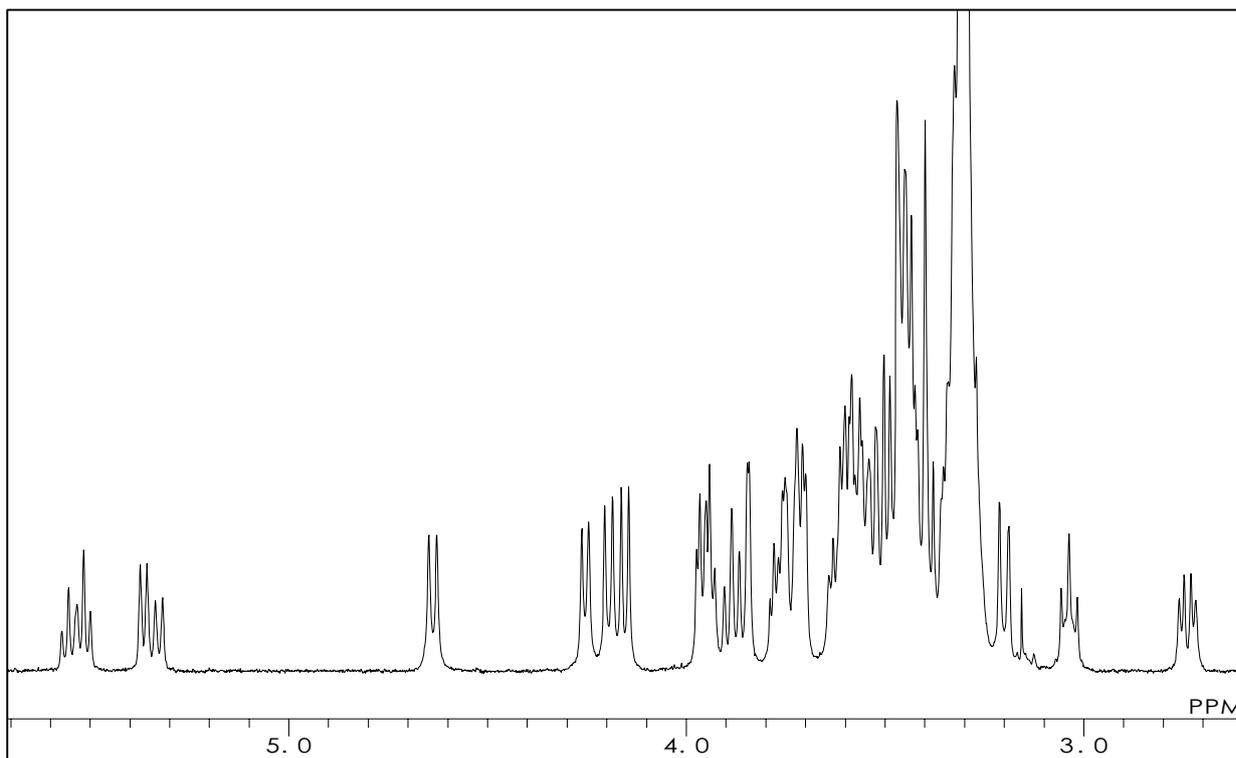
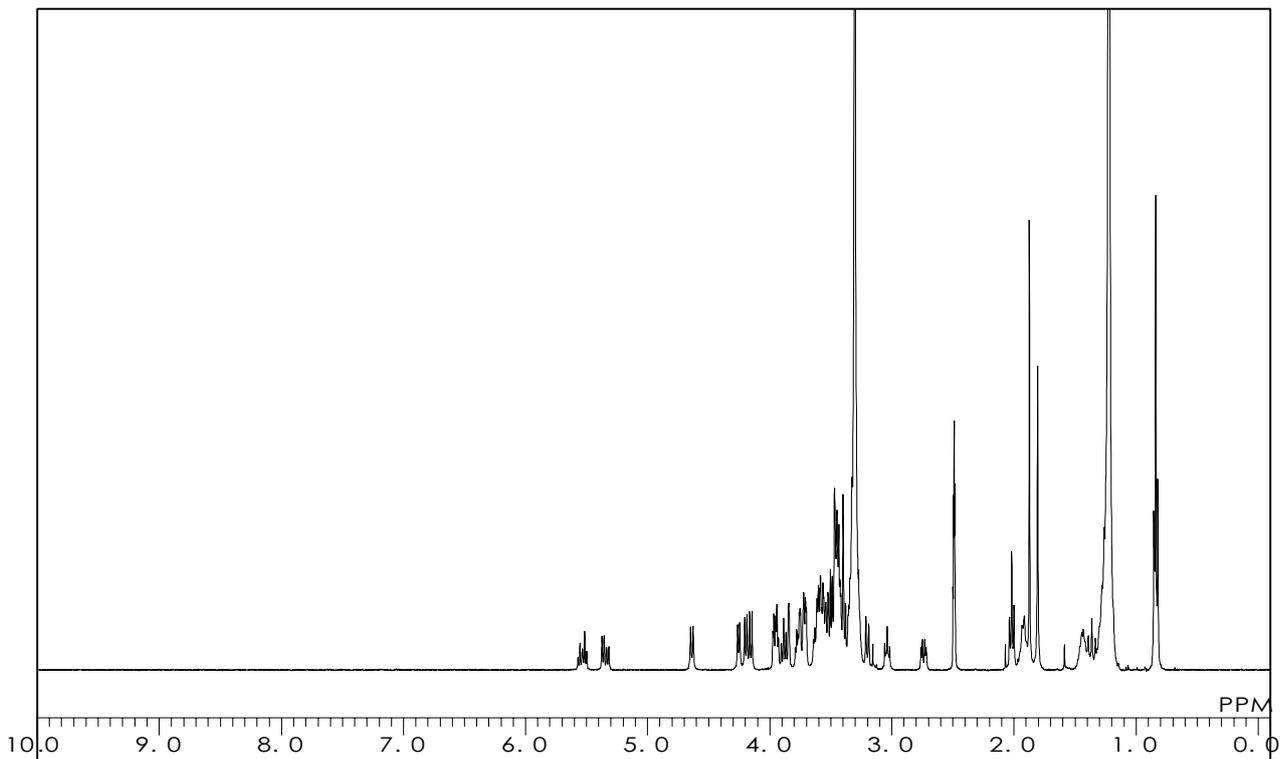
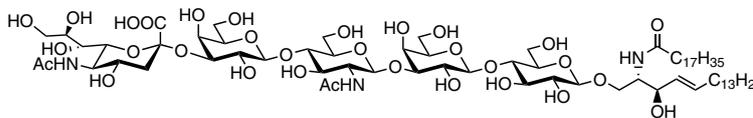
本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

S0910

Sialyl Neolactotetraosylceramide (=Sialyl nLc₄Cer)

C₇₃H₁₃₁N₃O₃₁ = 1546.84 [128529-29-3]

Solvent : DMSO-d₆/D₂O = 49/1
Internal Standard : DMSO (δ 2.49)
Measured Temperature : 50.0 °C



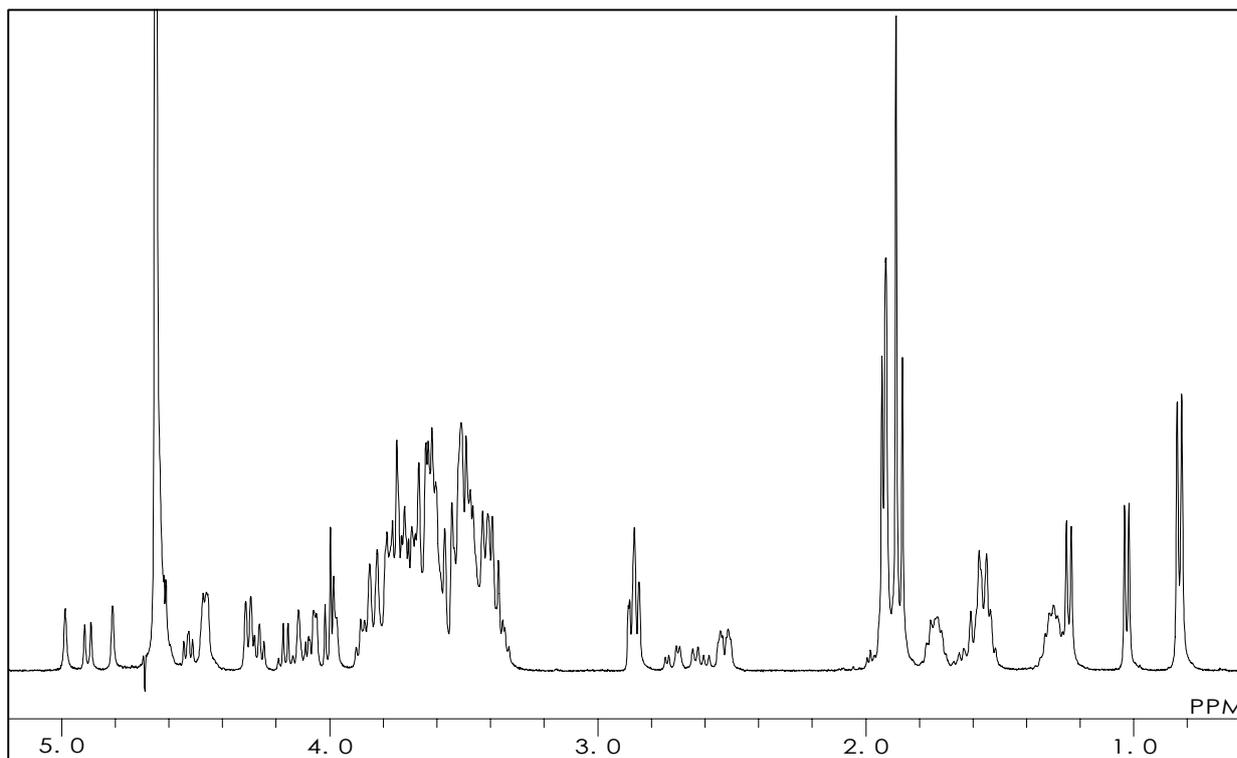
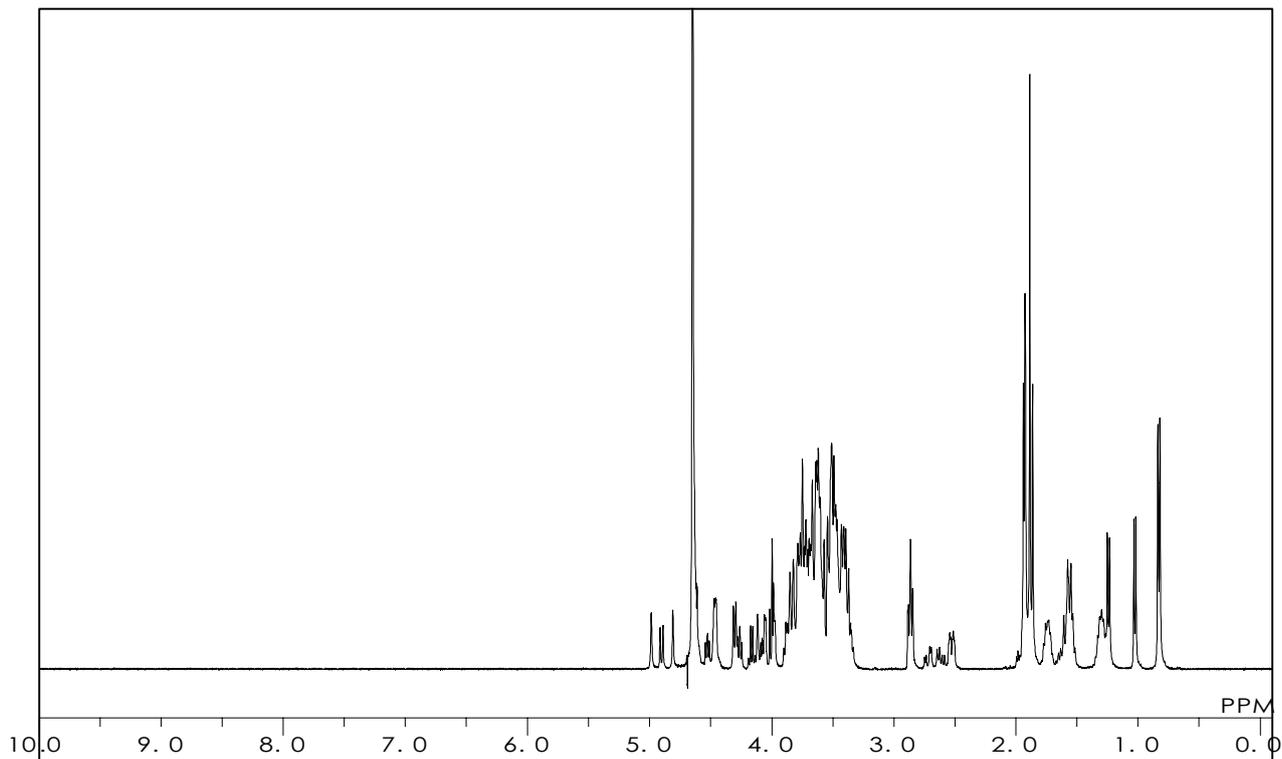
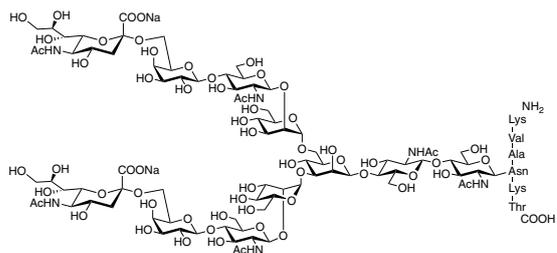
S0523

Sialylglycopeptide

$C_{112}H_{187}N_{15}Na_2O_{70} = 2909.74$ [189035-43-6]

Solvent : D_2O

Measured Temperature : 23.6 °C



本データの無断転用はご遠慮下さい。こちらのデータは弊社のホームページでも公開しています。

S0946

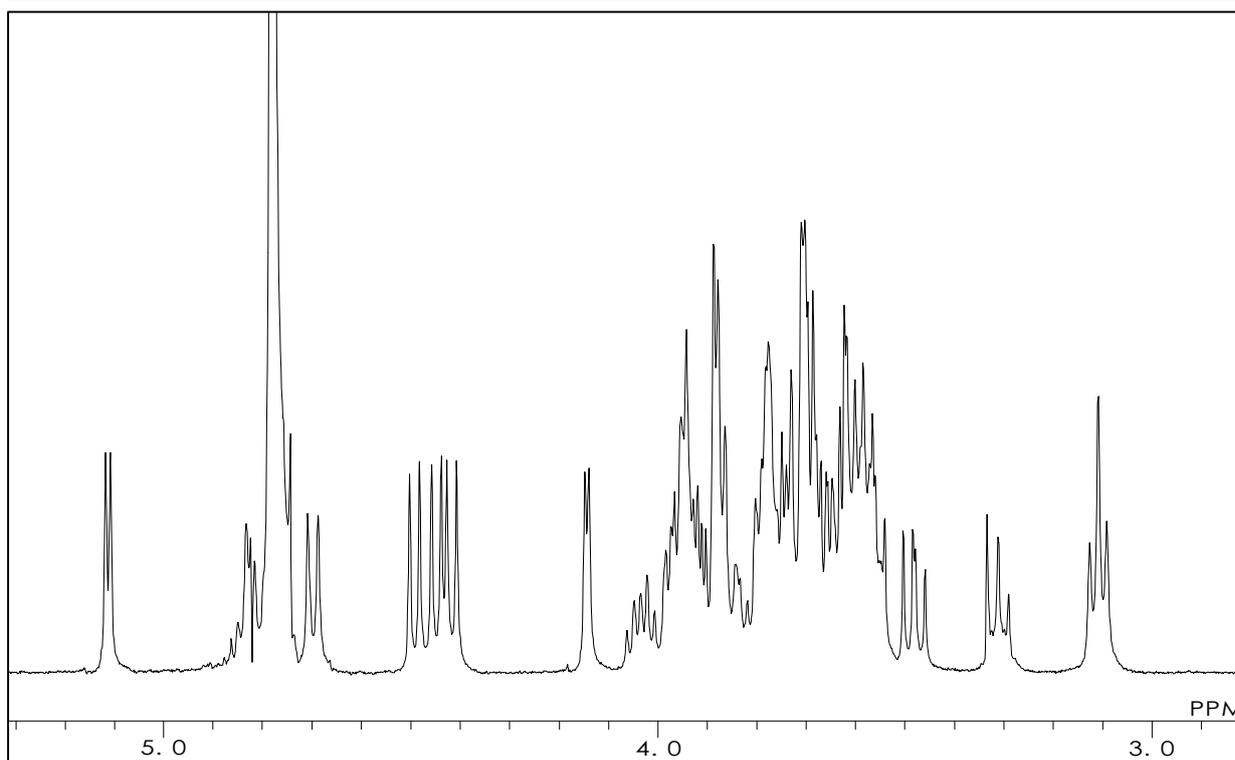
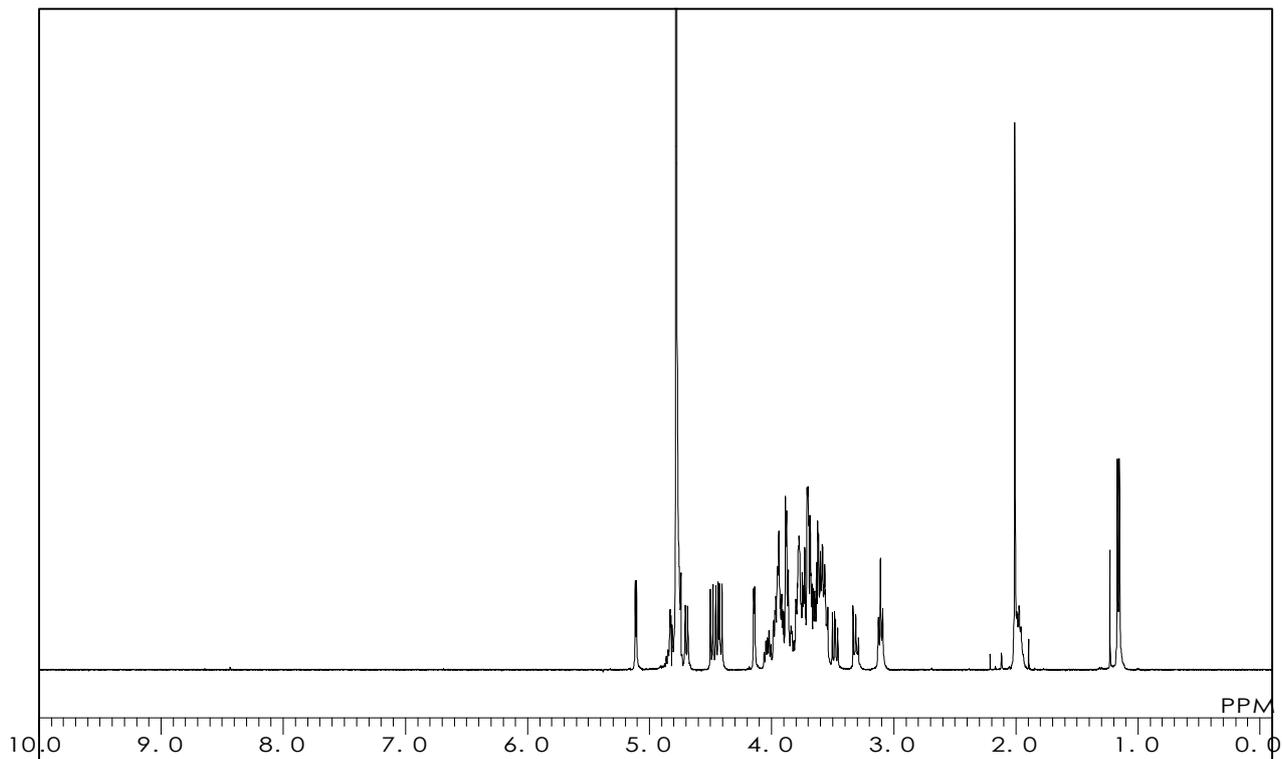
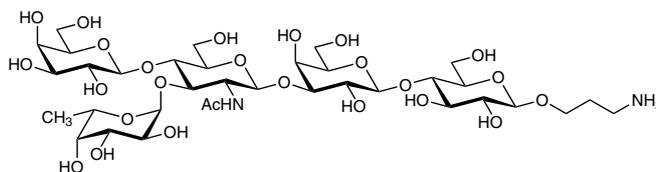
SSEA-1-PrNH₂

C₃₅H₆₂N₂O₂₅ = 910.87 [959862-91-0]

Solvent : D₂O

Internal Standard : *t*-BuOH (δ 1.23)

Measured Temperature : 23.3 °C



Please refrain from the conversion of these data without permission. These data have been released on our homepage.

A			
AA-2G.....	G0394...	80	
A Antigen PEG-trifluoroacetamide	A2631...	88	
Acarbose Hydrate	A2485...	88	
2-Acetamido-3-O-allyl-4,6-O-benzylidene-2-deoxy- β-D-glucopyranosyl Azide	A1812...	42	
2-Acetamido-3-O-benzyl-4,6-O-benzylidene-2-deoxy- β-D-glucopyranosyl Azide	A1813...	42	
2-Acetamido-4,6-O-benzylidene-2-deoxy- β-D-glucopyranosyl Azide	A1811...	42	
N ^w -(2-Acetamido-2-deoxy-β-D-glucopyranosyl)- N ^a -(tert-butoxycarbonyl)-L-asparagine	A1614...	42	
2-Acetamido-1,3,4,6-tetra-O-acetyl-2-deoxy- β-D-glucopyranose	A1459...	42	
2-Acetamido-3,4,6-tri-O-acetyl-2-deoxy- β-D-glucopyranosyl Azide	A1616...	42	
2-Acetamido-3,4,6-tri-O-acetyl-2-deoxy- α-D-glucopyranosyl Chloride	A1416...	42	
2-Acetamido-3,4,6-tri-O-benzyl-2-deoxy- β-D-glucopyranosyl Azide	A1678...	43	
N ^w -(2-Acetamido-3,4,6-tri-O-benzyl-2-deoxy- β-D-glucopyranosyl)-N ^a -(tert-butoxycarbonyl)- L-asparagine Benzyl Ester	A1685...	43	
Acetic Anhydride (ca. 1mol/L in Dichloromethane)	A1668...	126	
Acetone Dimethyl Acetal	A0057...	135	
Acetoxyacetyl Chloride	A1500...	126	
N-Acetyl-9-deoxy-9-aminoneuraminic Acid	A2511...	66	
N-Acetyl-9-deoxy-9-fluoroneuraminic Acid	A2492...	66	
N-Acetyl-2,3-didehydro-2-deoxyneuraminic Acid	A2205...	66	
N-Acetyl-D-galactosamine Hydrate	A1245...	24	
endo-α-N-Acetylglucosaminidase (=Endo-α) Recombinant: from <i>Bifidobacterium longum</i> expressed in <i>Escherichia coli</i>	A1844...	163	
N-Acetyl-D-glucosamine	A0092...	43	
endo-β-N-Acetylglucosaminidase (=Endo-M) Recombinant: from <i>Mucor hiemalis</i> expressed in <i>Candida boidinii</i> [Purity: single band by SDS-PAGE(85KDa)]	A1651...	161	
N-Acetyl-D-mannosamine Monohydrate	A2160...	60	
2-Acetyl-5-methoxyphenyl β-D-Glucopyranoside	A2253...	26	
N-Acetylneuraminic Acid	A1105...	66	
N-Acetylneuraminic Acid Hydrate	A0639...	66	
N-Acetylneuraminic Acid Methyl Ester	A1821...	66	
6-O-Acetyl-2,3,4-tri-O-benzyl-D-glucopyranose	A2636...	26	
Acid Maltase from <i>Rhizopus</i> (contains 50% Diatomaceous earth)	M0035...	164	
Ac ₂ ManNGc	G0463...	60	
Adonitol	A0171...	63	
Alginate Acid	A0733...	111	
Allitol	A1982...	9	
Allolactose	A2630...	74	
D-(+)-Allose	A1488...	9	
Allyl Bromide	B0643...	126	
Allyl α-D-Galactopyranoside	A2346...	16	
2-Aminobenzamide	A0262...	126	
2-Aminobenzoic Acid	A0497...	127	
3A-Amino-3A-deoxy-(2AS,3AS)-α-cyclodextrin Hydrate	A2122...	107	
3A-Amino-3A-deoxy-(2AS,3AS)-β-cyclodextrin Hydrate	A1916...	107	
3A-Amino-3A-deoxy-(2AS,3AS)-γ-cyclodextrin Hydrate	A2123...	107	
4-Aminophenyl β-D-Galactopyranoside	A1413...	16	
2-Aminopyridine	A0411...	126	
Ammonium Cerium(IV) Nitrate	C1806...	126	
Amygdalase from Almonds	G0035...	164	
Amygdalin	A0443...	74	
α-Amylase diluted with Starch, from <i>Bacillus subtilis</i>	A0447...	164	
β-Amylase from Soybean	A0448...	164	
Amylopectin Hydrate (Amylose free), from Waxy Corn	A0456...	111	
1,5-Anhydro-2-deoxy-D-arabino-hex-1-enitol 3,4,6-Tri-O-acetyl Ether	T1596...	40	
1,5-Anhydro-2-deoxy-D-arabino-hex-1-enitol 3,4,6-Tribenzyl Ether	T1859...	40	
1,5-Anhydro-2-deoxy-6-O-(triisopropylsilyl)- D-arabino-hex-1-enitol	T1936...	41	
1,5-Anhydro-2-deoxy-6-O-(triisopropylsilyl)- D-lyxo-hex-1-enitol	T1935...	23	
1,6-Anhydro-β-D-glucose	A1074...	26	
1,6-Anhydro-2,3,4-tri-O-benzyl-β-D-glucopyranose	A2637...	26	
1,4-Anhydro-D-xylitol	A2635...	72	
p-Anisaldehyde Dimethyl Acetal	A1247...	126	
Anthranilamide	A0262...	126	
Anthranilic Acid	A0497...	127	
Anti-Chondroitin Sulfate A Monoclonal Antibody (LY111)	A3143...	172	
Anti-Chondroitin Sulfate D Monoclonal Antibody (MO-225)	A2872...	172	
Anti-Endo-M Polyclonal Antibody	A2958...	181	
Anti-Endo-M Polyclonal Antibody Biotin Conjugate	A2959...	181	
Anti-GalNAc-GD _{1a} Monoclonal Antibody	A2701...	172	
Anti-α Gal Polyclonal Antibody Biotin Conjugate	A3144...	172	
Anti-α Gal Polyclonal Antibody (Chicken)	A3123...	172	
Anti-Gb ₃ Monoclonal Antibody	A2506...	172	
Anti-Gb ₃ Monoclonal Antibody (Culture Supernatant)	A2586...	172	
Anti-Gb ₃ Monoclonal Antibody Biotin Conjugate	A2822...	173	
Anti-GD _{1a} Monoclonal Antibody	A2507...	173	
Anti-GD _{1b} Monoclonal Antibody	A2508...	173	
Anti-GD ₃ Monoclonal Antibody	A2580...	173	
Anti-GD ₃ Monoclonal Antibody (Culture Supernatant)	A2579...	173	
Anti-GM ₁ Monoclonal Antibody	A2505...	173	
Anti-GM ₂ Monoclonal Antibody	A2576...	174	
Anti-GM ₂ Monoclonal Antibody (Culture Supernatant)	A2575...	173	
Anti-GM ₃ Monoclonal Antibody	A2582...	174	
Anti-GM ₃ Monoclonal Antibody (Culture Supernatant)	A2581...	174	
Anti-GQ _{2a} Monoclonal Antibody	A2662...	174	
Anti-GT _{1a} Monoclonal Antibody	A2702...	174	
Anti-GT _{1b} Monoclonal Antibody	A2732...	174	
Anti-HRP Rabbit Polyclonal Antibody	A2250...	181	
Anti-Keratan Sulfate Monoclonal Antibody (R-10G)	A2968...	174	
Anti-Lewis X Monoclonal Antibody	A2578...	175	
Anti-Lewis X Monoclonal Antibody (Culture Supernatant)	A2577...	175	
Anti-Lewis Y Monoclonal Antibody	A2510...	175	
Anti-Lewis Y Monoclonal Antibody (Culture Supernatant)	A2587...	175	
Anti-Protein A Chicken Polyclonal Antibody	A3044...	181	
Anti-Protein A Chicken Polyclonal Antibody Biotin Conjugate	A3045...	181	
Anti-Protein A Chicken Polyclonal Antibody HRP Conjugate	A3187...	181	
Anti-SGPG(HNK-1) Monoclonal Antibody	A2706...	175	
Anti-Sialyl Lewis A Monoclonal Antibody (1H4, Culture Supernatant)	A2583...	175	
Anti-Sialyl Lewis A Monoclonal Antibody (2D3)	A2509...	175	
Anti-Sialyl Lewis A Monoclonal Antibody (1H4)	A2584...	176	
Anti-Sialyl Lewis X Monoclonal Antibody	A2849...	176	
Anti-Sialyl Lewis X Monoclonal Antibody (Culture Supernatant)	A2660...	176	
Anti-6xHis Monoclonal Antibody (6A12)	A2957...	181	
Anti-6xHis Monoclonal Antibody (6A12) Biotin Conjugate	A3010...	182	
AOL (<i>Aspergillus oryzae</i> L-fucose-specific lectin)- Biotin Conjugate	A2659...	167	
AOL-Biotin Conjugate	A2659...	167	
(+)-Arabinogalactan from Larch Wood	A1328...	111	
DL-Arabinose	A0514...	10	
D-(-)-Arabinose	A0513...	10	
L-(+)-Arabinose	A0515...	10	
DL-Arabitol	A0517...	10	
D-(+)-Arabitol	A0516...	10	
L-(-)-Arabitol	A0518...	10	
D-Araboascorbic Acid	A0520...	119	
Arbutin	A0522...	26	
L-Ascorbic Acid	A0537...	119	
L-Ascorbic Acid 2-Phosphate Sesquimagnesium Salt Hydrate	A2521...	119	
L-Ascorbic Acid Sodium Salt	A0539...	124	
L-Ascorbyl 2,6-Dibutyrate	A1205...	119	
O-(2-Azido-4,6-O-benzylidene-2-deoxy- α-D-galactopyranosyl)-N-[(9H-fluoren- 9-ylmethoxy)carbonyl]-L-serine tert-Butyl Ester	A1833...	24	
O-(2-Azido-4,6-O-benzylidene-2-deoxy- α-D-galactopyranosyl)-N-[(9H-fluoren- 9-ylmethoxy)carbonyl]-L-threonine tert-Butyl Ester	A1832...	24	
6A-Azido-6A-deoxy-β-cyclodextrin	A3090...	107	
6-Azido-6-deoxy-D-galactopyranose	A3167...	16	
N-[2-[2-(2-Azidoethoxy)ethoxy]ethoxy]ethyl]- biotinamide	A2523...	127	
2-[2-(2-Azidoethoxy)ethoxy]ethyl 2,3,4,6-Tetra-O-acetyl-D-galactopyranoside	G0257...	16	
2-Azidoethyl 2-Acetamido-2-deoxy-β-D-galactopyranoside	A2627...	24	
2-Azidoethyl 2-Acetamido-2-deoxy-β-D-glucopyranoside	A2172...	43	
2-Azidoethyl β-D-Glucopyranoside	A2267...	26	
2-Azidoethyl 2,3,4,6-Tetra-O-acetyl-β-D-glucopyranoside	A2377...	26	
11-Azido-3,6,9-trioxundecanol	A2294...	127	

Product Name Index-②

B

Baicalin	B2835	48
B Antigen PEG-trifluoroacetamide	B4172	88
Barosmin	D3908	75
Benzaldehyde Dimethyl Acetal	B1197	127
Benzenethiol	B0041	127
Benzoic Anhydride	B0078	127
Benzoyl Chloride	B0105	127
N-Benzoyl-D-glucosamine	B0200	43
Benzyl Alcohol	B2378	128
Benzylamine	B0406	128
Benzyl Bromide (stabilized with Propylene Oxide)	B0411	128
Benzyl Chloride (stabilized with ϵ -Caprolactam)	B0412	128
Benzyl Chloroformate	B3021	128
Benzyl Chloroformate (30-35% in Toluene)	C0176	128
Benzyl 2,3-Di-O-benzyl-4,6-O-benzylidene- β -D-glucopyranoside	B4170	27
Benzyl 2,3,4-Tri-O-benzyl- β -D-glucopyranoside	B4171	27
Betanin (Red Beet extract diluted with Dextrin)	B0397	27
BGIT	A5515	39
11-(Biotinamido)-3,6,9-trioxadecanoic Acid	B5711	128
Biotin-PEG ₃ -acetic Acid	B5711	128
Biotin-PEG ₃ -Azide	A2523	127
Biotin-PEG ₄ -Azide	B5546	129
(+)-(2R,3R)-1,4-Bis(benzyloxy)-2,3-butanediol	D2239	119
(-)-(2S,3S)-1,4-Bis(benzyloxy)-2,3-butanediol	D2240	119
2,4-Bis(benzyloxy)-6-chloro-1,3,5-triazine	B4587	129
Bis(4-hydroxyphenyl) Sulfide	D1356	129
2,2-Bis[4-(per-O-methyl- α -cyclodextrin-6-yloxy)phenyl]propane	B3026	107
Bleomycin Sulfate (mixture)	B3972	74
Bluo-Gal	B3470	16
Boc ₂ O	D1547	134
Boc ₂ O (ca. 30% in Dioxane)	D3878	133
Boc ₂ O (ca. 30% in Tetrahydrofuran)	D3879	133
Boc ₂ O (ca. 30% in Toluene)	D3880	134
Boron Trifluoride - Ethyl Ether Complex	B0527	129
5-Bromo-4-chloro-3-indolyl β -D-Galactopyranoside [for Biochemical Research]	B3201	16
5-Bromo-6-chloro-3-indolyl β -D-Galactopyranoside (contains ca. 10% Ethyl Acetate) [for Biochemical Research]	B3469	16
5-Bromo-4-chloro-3-indolyl β -D-Glucopyranoside [for Biochemical Research]	B5393	27
5-Bromo-3-indolyl β -D-Galactopyranoside [for Biochemical Research]	B3470	16
N-Bromosuccinimide	B0656	129
BSTFA [=N,O-Bis(trimethylsilyl)trifluoroacetamide] [for Gas Chromatography]	A5603	129
L-1,2,3,4-Butanetetrol	T1647	124
tert-Butyldimethylchlorosilane [tert-Butyldimethylsilylating Agent]	B0995	129
tert-Butyldimethylsilyl Triflate	T1525	130
tert-Butyldimethylsilyl Trifluoromethanesulfonate	T1525	130
tert-Butyldiphenylchlorosilane	B1223	130

C

Calcium Alginate	A0738	111
Calcium Gluconate Monohydrate	G0037	27
Calcium Lactobionate Hydrate	L0006	74
(\pm)-10-Camphorsulfonic Acid	C0016	130
(+)-10-Camphorsulfonic Acid	C0015	130
(-)-10-Camphorsulfonic Acid	C0972	130
CAN	C1806	126
Capsaicin β -D-Glucopyranoside	C2548	27
3-(Carbobenzoxyamino)-1-propanol	C1932	130
N-Carbobenzoxyoxysuccinimide	C1124	130
1,1'-Carbonyldiimidazole [Coupling Agent for Peptides Synthesis]	C0119	131
Carboxymethyl Cellulose Sodium Salt (n=approx. 500)	C0045	111
Carboxymethyl Cellulose Sodium Salt (n=approx. 1,050)	C0603	111
Carboxymethyl dextran Sodium Salt (Mw.=ca. 10,000)	C3250	111
Carboxymethyl dextran Sodium Salt (Mw.=ca. 40,000)	C3251	112
Carmine	C0543	27
Carminic Acid (Natural dye)	C0782	28
ι -Carrageenan	C1805	112
κ -Carrageenan	C1804	112
λ -Carrageenan (High-viscosity)	C3313	112
λ -Carrageenan (Low-viscosity)	C2871	112

Cbz Chloride	B3021	128
Cbz Chloride (30-35% in Toluene)	C0176	128
Cbz-Cl	B3021	128
Cbz-Cl (30-35% in Toluene)	C0176	128
O-Cbz-N-hydroxysuccinimide	C1124	130
Cbz-OSu	C1124	130
CDI	C0119	131
D-(+)-Cellobiose	C0056	74
α -D-Cellobiose Octaacetate	C0861	74
Cellopentaose	C2644	99
Cellotetraose	C2796	95
Cellotriose	C2795	88
Cellulase from <i>Aspergillus niger</i>	C0057	164
Cellulose PAB Capacity: 0.20meq/g	C0064	112
Cellulose TEAE Capacity: 0.72 meq/g	C0068	112
Cesium Acetate	C2430	131
Chitin	C0072	113
Chitin Oligosaccharides (contains N-Acetylglucosamine)	C2762	99
Chitosan (5-20mPa·s, 0.5% in 0.5% Acetic Acid at 20°C)	C2395	113
Chitosan (20-100mPa·s, 0.5% in 0.5% Acetic Acid at 20°C)	C2396	113
Chitosan (200-600mPa·s, 0.5% in 0.5% Acetic Acid at 20°C)	C0831	113
Chitosan Oligosaccharides	C2849	99
Chitotetraose Tetrahydrochloride Hydrate	C2641	95
Chitotriose Trihydrochloride Hydrate	C2642	88
α -Chloralose (contains β -isomer)	C0074	28
Chlorhexidine Digluconate (20% in Water)	C3105	28
Chloroacetyl Chloride	C0098	131
Chlorodimethyl Ether	C0202	132
2-Chloro-1,3-dimethylimidazolium Chloride (stabilized with Diisopropylethylamine)	C1408	131
2-Chloro-1,3-dimethylimidazolium Chloride (ca. 25% in Dichloromethane)	C1639	131
Chlorodimethylphosphine Sulfide	D2159	136
6-Chloro-3-indolyl β -D-Galactopyranoside [for Biochemical Research]	C2371	17
2-(Chloromethoxy)ethyltrimethylsilane (stabilized with Diisopropylethylamine)	C1339	131
(Chloromethylene)dimethyliminium Chloride	C1545	131
Chloromethyl Methyl Ether	C0202	132
2-Chloro-1-methylpyridinium Iodide	C0903	132
Chlorotrimethylsilane	C0306	132
Chondroitin Sulfate Sodium Salt	C0335	113
Chondrosamine Hydrochloride	G0007	24
Cleland's Reagent	D1071	120
L-Cleland's Reagent	D1589	120
Copper(II) Gluconate	G0275	28
Copper(II) Triflate	T1292	132
Copper(II) Trifluoromethanesulfonate	T1292	132
Crocin (Gardenia Fruits Extract)	C1527	74
(+)-CSA	C0015	130
(-)-CSA	C0972	130
α -Cyclodextrin	C0776	107
β -Cyclodextrin	C0777	107
γ -Cyclodextrin	C0900	108
γ -Cyclodextrin	C0869	108
β -Cyclodextrin Henicosaacetate	T1844	110
Cyclohexene	C0491	132

D

DABCO	D0134	133
Daidzin	D3920	28
DANA	A2205	66
Dansyl Chloride	D0656	132
Dansyl Chloride (10% in Acetone)	D0005	132
DAST	D1868	135
Daunorubicin Hydrochloride	D4532	119
DBT-Cl	B4587	129
DBU	D1270	133
DCC	D0436	134
DDQ	D1070	134
DEAD (40% in Toluene, ca. 2.2mol/L)	A0705	135
2-Deoxy-2,2-difluoro-D-erythro-pentonic Acid γ -Lactone 3,5-Dibenzoate	D4207	63
2-Deoxy-2-fluoro-D-glucopyranose	C3023	28
2-Deoxy-2-fluoro-1,3,5-tri-O-benzoyl- α -D-arabinofuranose	D4594	10
2-Deoxy-D-galactose	D0050	17
2-Deoxy-D-glucose	D0051	28
2-Deoxy-D-ribose	D0059	63
Dermatan Sulfate Sodium Salt	D3672	113
Dextran 40 (Mw.=ca. 40,000)	D1448	113

Dextran 70 (Mw.=ca. 70,000).....	D1449.. 114	(+)-1,4-Di-O-tosyl-2,3-O-isopropylidene-D-threitol.....	D1622.. 120
Dextrin.....	D4657.. 114	(-)-1,4-Di-O-tosyl-2,3-O-isopropylidene-L-threitol.....	D1623.. 120
D-(+)-Dextrose.....	G0048.. 30	DMAP.....	D1450.. 136
Diacetyl.....	B0682.. 133	DMC.....	C1408.. 131
N,N'-Diacetylchitobiose.....	D4215.. 75	DMC (ca. 25% in Dichloromethane).....	C1639.. 131
3,4-Di-O-acetyl-6-deoxy-L-glucal.....	D2752.. 62	DNS-SGN.....	D3690.. 100
1,6-Di-O-acetyl-2,3,4-tri-O-benzyl- α -D-mannopyranose.....	D5294.. 55	Doxorubicin Hydrochloride.....	D4193.. 120
1,6:2,3-Dianhydro- β -D-mannopyranose.....	D4372.. 55	DTE.....	D1320.. 12
1,4-Diazabicyclo[2.2.2]octane.....	D0134.. 133	DL-DTT.....	D1071.. 120
1,8-Diazabicyclo[5.4.0]-7-undecene.....	D1270.. 133	L-DTT.....	D1589.. 120
6,6'-Diazo-6,6'-dideoxytrehalose.....	D5372.. 75	Dulcitol.....	G0005.. 17
DIBAL-H (19% in Hexane, ca. 1.0mol/L).....	D2971.. 135	E	
Dibenzyl Azodicarboxylate (40% in Dichloromethane, ca. 1.7mol/L).....	A0776.. 133	EDAC.....	D4029.. 135
Dibenzyl Phosphate.....	P1120.. 133	EDAC.HCl.....	D1601.. 135
(+)-1,4-Di-O-benzyl-D-threitol.....	D2239.. 119	EDC.....	D4029.. 135
(-)-1,4-Di-O-benzyl-L-threitol.....	D2240.. 119	EDC.HCl.....	D1601.. 135
Di-tert-butyl Dicarboxylate [Boc-reagent for Amino Acid].....	D1547.. 134	EDCI.....	D4029.. 135
Di-tert-butyl Dicarboxylate (ca. 30% in Dioxane).....	D3878.. 133	EDCI.HCl.....	D1601.. 135
Di-tert-butyl Dicarboxylate (ca. 30% in Tetrahydrofuran).....	D3879.. 133	Emulsin from Almonds.....	G0035.. 164
Di-tert-butyl Dicarboxylate (ca. 30% in Toluene).....	D3880.. 134	Endo- α Recombinant: from <i>Bifidobacterium longum</i> expressed in <i>Escherichia coli</i>	A1844.. 163
Di-tert-butylsilyl Bis(trifluoromethanesulfonate).....	D3135.. 134	Endo-M Recombinant: from <i>Mucor hiemalis</i> expressed in <i>Candida boidinii</i> [Purity: single band by SDS-PAGE(85KDa)].....	A1651.. 161
Di-tert-butylsilyl Ditriflate.....	D3135.. 134	Endo-M-W251N Recombinant: from <i>Mucor hiemalis</i> expressed in <i>Escherichia coli</i>	E1339.. 161
Dibutyltin Dichloride.....	D0223.. 134	D-Erythorbic Acid.....	A0520.. 119
Dibutyltin Oxide.....	D0305.. 134	meso-Erythritol.....	E0021.. 12
2,6-Di-O-butyl-L-ascorbic Acid.....	A1205.. 119	D-Erythronolactone.....	E0455.. 12
2,3-Dichloro-5,6-dicyano-1,4-benzoquinone.....	D1070.. 134	Esculin Sesquihydrate.....	E0024.. 29
N,N'-Dicyclohexylcarbodiimide.....	D0436.. 134	3-O-Ethyl-L-ascorbic Acid.....	E0926.. 120
DIEA.....	D1599.. 135	Ethyl Cellulose [9-11mPa·s, 5% in Toluene + Ethanol (80:20) at 25°C].....	E0265.. 114
(Diethylamino)sulfur Trifluoride [Fluorinating Reagent].....	D1868.. 135	Ethyl Cellulose [18-22mPa·s, 5% in Toluene + Ethanol (80:20) at 25°C].....	E0072.. 114
Diethyl Azodicarboxylate (40% in Toluene, ca. 2.2mol/L).....	A0705.. 135	Ethyl Cellulose [45-55mPa·s, 5% in Toluene + Ethanol (80:20) at 25°C].....	E0266.. 114
Digitonin.....	D0540.. 99	Ethyl Cellulose [90-110mPa·s, 5% in Toluene + Ethanol (80:20) at 25°C].....	E0290.. 114
Digitoxin.....	D0542.. 88	1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide Hydrochloride.....	D1601.. 135
Digoxin.....	D1828.. 88	Ethylenediamine Anhydrous.....	E0077.. 137
2-O-(2,3-Dihydroxypropyl)-L-ascorbic Acid.....	G0451.. 121	Ethylenediamine Monohydrate.....	E0081.. 137
Diisobutylaluminum Hydride (19% in Hexane, ca. 1.0mol/L).....	D2971.. 135	N-Ethyl-D-glucamine.....	E0923.. 121
N,N-Diisopropylethylamine.....	D1599.. 135	4,6-O-Ethylidene- α -D-glucopyranose.....	E0402.. 29
1,2:5,6-Di-O-isopropylidene- α -D-allofuranose.....	D2265.. 9	Etoposide.....	E0675.. 29
2,3:4,5-Di-O-isopropylidene- β -D-fructopyranose.....	D3758.. 13	F	
1,2:3,4-Di-O-isopropylidene- α -D-galactopyranose.....	D2555.. 17	5-FITC (isomer I).....	F0026.. 137
1,2:5,6-Di-O-isopropylidene- α -D-glucofuranose.....	D1949.. 29	6-FITC (isomer II).....	F0783.. 137
(-)-2,3:4,6-Di-O-isopropylidene-2-keto- L-gulononic Acid Monohydrate.....	D2191.. 50	FITC Dextran (Mw.=ca. 10,000).....	F0918.. 114
1,2:5,6-Di-O-isopropylidene-D-mannitol.....	D2024.. 55	N ^o -[(9H-Fluoren-9-ylmethoxy)carbonyl]- L-serine tert-Butyl Ester.....	F0516.. 137
2,3:5,6-Di-O-isopropylidene-D-mannofuranose.....	D2447.. 55	N ^o -[(9H-Fluoren-9-ylmethoxy)carbonyl]- L-threonine tert-Butyl Ester.....	F0517.. 137
2,3:4,5-Di-O-isopropylidene-1-O-p-toluenesulfonyl- β -D-fructopyranose.....	D5395.. 13	Fluorescein 5-Isothiocyanate (isomer I).....	F0026.. 137
1,2:3,4-Di-O-isopropylidene-6-O-(p-toluenesulfonyl)- α -D-galactopyranose.....	D5458.. 17	Fluorescein 6-Isothiocyanate (isomer II).....	F0783.. 137
1,2:3,5-Di-O-isopropylidene- α -D-xylofuranose.....	D2616.. 72	Fluorescein Isothiocyanate Dextran (Mw.=ca. 10,000).....	F0918.. 114
Dikegulac Monohydrate.....	D2191.. 50	Fluoromethyl Phenyl Sulfone.....	F0341.. 138
2,2-Dimethoxypropane.....	A0057.. 135	Fmoc-Ser[GalN ₃ [46Bzd]- α]-OtBu.....	A1833.. 24
1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide.....	D4029.. 135	Fmoc-Ser-OtBu.....	F0516.. 137
1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide Hydrochloride [Coupling Agent for Peptides Synthesis].....	D1601.. 135	Fmoc-Thr[GalN ₃ [46Bzd]- α]-OtBu.....	A1832.. 24
4-Dimethylaminopyridine.....	D1450.. 136	Fmoc-Thr-OtBu.....	F0517.. 137
2,3-Dimethylpyridine.....	L0063.. 140	4-Formylphenyl β -D-Allopyranoside.....	F0542.. 9
2,4-Dimethylpyridine.....	L0085.. 140	Forssman Pentaose MP Glycoside.....	F0584.. 100
2,5-Dimethylpyridine.....	L0065.. 140	D-(-)-Fructose.....	F0060.. 13
2,6-Dimethylpyridine.....	L0067.. 140	L-(+)-Fructose.....	F0317.. 13
3,4-Dimethylpyridine.....	L0066.. 140	Fuc α (1-2)Gal β (1-3)GalNAc- α -pNP (=H type 3 α -pNP Glycoside).....	F0895.. 89
3,5-Dimethylpyridine.....	L0068.. 140	Fuc α (1-2)Gal β (1-3)GalNAc- β -pNP (=H type 3 β -pNP Glycoside).....	F0896.. 89
Dimethylthiophosphinoyl Chloride.....	D2159.. 136	Fuc α (1-2)Gal β (1-3)GalNAc- α -propylamine.....	F1189.. 89
Diosmin.....	D3908.. 75	Fuc α (1-2)Gal β (1-3)GlcNAc- β -pNP (=H type 1 β -pNP Glycoside).....	F0894.. 89
2,6-Di-O-palmitoyl-L-ascorbic Acid.....	A0757.. 120	Fuc α (1-3)GlcNAc.....	F1030.. 75
DIPEA.....	D1599.. 135	Fuc α (1-6)GlcNAc.....	F0897.. 75
Diphenyl Chlorophosphate.....	D1059.. 136	Fuc α (1-6)GlcNAc- β -propylamido-biotin.....	F1021.. 75
Diphenyl Phosphate.....	P0801.. 136	D-(+)-Fucose.....	D0049.. 14
Diphenylphosphinic Chloride.....	C1415.. 136	L-(-)-Fucose.....	F0065.. 14
Diphenyl Sulfone.....	P0231.. 136		
Diphenyl Sulfoxide.....	D1002.. 136		
Diphenyltin Sulfide [Activator for O-Glycoside Synthesis].....	D2358.. 137		
Dipotassium Glycyrrhizinate Hydrate.....	G0270.. 75		
Disialylnonasaccharide- β -ethylazide.....	D4217.. 99		
Disialylnonasaccharide- β -pNP.....	N0913.. 99		
Disialyloctasaccharide.....	D4065.. 99		
Dithioerythritol.....	D1320.. 12		
DL-Dithiothreitol.....	D1071.. 120		
L-Dithiothreitol.....	D1589.. 120		

Product Name Index-4

G		
G0 2AB	G0490	100
G2 2AB	G0493	101
3-G1 2AB	G0491	100
6-G1 2AB	G0492	101
Gal[246Ac,3All]- β -SPH	P1680	22
Gal[2Ac,346Bn] β (1-3)GlcNPhth[46Bzd]- β -MP	G0374	76
Gal[2Ac,346Bn]- β -SPH	P2078	22
Gal[2346Ac] α (1-3)Gal[246Ac]- β -MP	G0460	76
Gal[2346Ac] β (1-3)GalN ₃ [46Bzd]- β -MP	G0330	76
Gal[2346Ac] β (1-3)GalN ₃ - β -MP	G0329	76
Gal[2346Ac] β (1-4)Glc[236Ac]- β -MP	M1694	76
Gal[2346Ac] β (1-3)GlcN ₃ [46Bzd]- β -MP	G0309	76
Gal[2346Ac] β (1-3)GlcNPhth[46Bzd]- β -MP	G0311	76
D-Galactal	G0273	17
Galactinol Hydrate	G0298	77
Galactitol	G0005	17
D-(+)-Galactosamine Hydrochloride	G0007	24
D-(+)-Galactose Anhydrous	G0008	17
L-(-)-Galactose	G0267	18
α -Galactosylceramide	G0509	18
α -D-Galacturonic Acid Hydrate	G0010	18
Gal[3All,246Bn] β (1-3)GlcNPhth[6Bn]- β -MP	G0379	77
Gal[246Bn,3All]- β -SPH	P1660	22
Gal[26Bn] β (1-4)Glc[236Bn]- β -MP	M1686	77
Gal[246Bn] β (1-4)Glc[236Bn]- β -MP	M1727	77
Gal[236Bn] β (1-4)Glc[236Bn]- β -MP	M1726	77
Gal[2346Bn]- β -SPH	P1679	22
α -GalCer	G0509	18
Gal α (1-3)Gal- β -MP	G0461	77
Gal β (1-3)GalNAc	G0439	77
Gal β (1-3)GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc	G0434	102
Gal β (1-3)GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc- β -pNP	G0355	102
Gal β (1-3)GalNAc- α -pNP	G0375	78
Gal β (1-3)GalNAc- β -pNP	G0344	78
Gal β (1-3)GalNAc- α -propylamine	G0528	78
Gal β (1-3)GalNAc- α -Thr	G0340	78
Gal β (1-4)Glc- β -MP	M1805	78
Gal β (1-3)GlcNAc β (1-3)Gal β (1-3)GlcNAc- β -PEG ₃ -biotin	G0511	95
Gal β (1-3)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -PEG ₃ -biotin	G0513	95
Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc- β -PEG ₃ -biotin	G0515	95
Gal β (1-3)GlcNAc[6S] β (1-3)Gal β (1-3)GlcNAc[6S]- β -PEG ₃ -biotin	G0512	95
Gal β (1-3)GlcNAc[6S] β (1-3)Gal β (1-4)GlcNAc[6S]- β -PEG ₃ -biotin	G0514	95
Gal β (1-4)GlcNAc[6S] β (1-3)Gal β (1-4)GlcNAc[6S]- β -PEG ₃ -biotin	G0516	97
Gal[6S] β (1-4)GlcNAc[6S] β (1-3)Gal[6S] β (1-4)GlcNAc[6S]- β -PEG ₃ -biotin	G0517	97
Gal β (1-3)GlcNAc β (1-3)Gal β (1-4)Glc- β -pNP	G0348	96
Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)Glc- β -pNP	G0351	96
Gal β (1-3)[GlcNAc β (1-6)]GalNAc	G0529	89
Gal β (1-3)[GlcNAc β (1-6)]GalNAc- α -Thr	G0343	89
Gal β (1-4)GlcNAc β (1-2)Man α (1-3)		
[Gal β (1-4)GlcNAc β (1-2)Man α (1-6)]		
Man β (1-4)GlcNAc β (1-4)GlcNAc-peptide	G0466	102
Gal β (1-3)GlcNAc- β -pNP	G0420	78
Gal β (1-3)GlcNAc[6S]	G0527	78
Gal β (1-4)GlcNAc[6S]	L0324	80
Gal[6S] β (1-4)GlcNAc[6S]	L0325	80
Gal α (1-3) N-Glycan	G0488	102
Gal α (1-3) N-Glycan 2AB	G0494	102
GalNAc β (1-3)Gal α (1-3)Gal β (1-4)Glc- β -pNP	G0380	96
GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc- β -pNP	G0354	96
GalNAc α (1-3)GalNAc β (1-3)Gal α (1-4)Gal β (1-4)Glc β MP Glycoside	F0584	100
GalNAc β (1-3)GlcNAc- β -ethylazide	G0373	79
GalNAc β (1-3)GlcNAc- β -pNP	G0352	79
GalNAc β (1-4)GlcNAc- β -pNP	G0356	79
Gal β (1-3)[Neu5Ac α (2-6)]GalNAc- α -pNP	G0377	89
Gal β (1-3)[Neu5Ac α (2-6)]GalNAc- β -pNP	G0345	90
Gal β (1-3)[Neu5Ac α (2-6)]GalNAc- α -propylamine	G0440	90
Gal β (1-3)[Neu5Ac α (2-6)]GlcNAc- β -pNP	G0347	90
Gal β (1-4)[Neu5Ac α (2-6)]GlcNAc- β -pNP	G0353	90
Ganglioside GM ₁	G0483	102
Ganglioside GM ₃	G0489	90
Ganglioside GM ₃ (phyto-type)	G0422	90
Ganglioside GM ₁ [d18:1, (Carbon-13)C16:0]	G0421	102
Ganglioside GM ₃ [d18:1, (Carbon-13)C16:0]	G0419	90
Ganglioside GM ₃ (Neu5Gc) (phyto-type)	G0510	91
Gastrodin	G0468	29
Gb ₃	G0434	102
Gb ₃ - β -ethylamine	G0402	91
Gb ₃ - β -ethylazide	G0403	91
Gb ₃ - β -MP	M1767	91
Geniposide	G0385	29
Gentamicin Sulfate	G0383	121
Gentiobiose	G0026	79
G0 Glycan	G0484	100
G2 Glycan	G0487	101
3-G1 Glycan	G0485	101
6-G1 Glycan	G0486	101
G0 glycan (GN, type)	G0530	100
3-G,GN ₂ M ₃ GN ₂ -MP	G0471	101
6-G,GN ₂ M ₃ GN ₂ -MP	G0472	101
GITC	A5514	38
GlcA[234Ac,6Me]- β -SPH	M1759	48
GlcA[3S] β (1-3)Gal β (1-4)GlcNAc β (1-2)Man- α -ethylazide	G0372	96
Glc β (1-4)Glc- β -pNP	N0867	85
N-GlcNAc-Biotin	G0297	43
GlcNAc β (1-4)[Fuc α (1-3)]GlcNAc	G0465	91
GlcNAc β (1-4)[Fuc α (1-6)]GlcNAc	G0423	91
GlcNAc β (1-3)GalNAc- α -pNP	G0376	79
GlcNAc β (1-3)GalNAc- α -Thr	G0341	79
GlcNAc β (1-4)GlcNAc	D4215	75
GlcNAc β (1-3)[GlcNAc β (1-6)]GalNAc- α -Thr	G0342	91
GlcNAc β (1-2)Man- α -ethylazide	G0337	79
GlcNAc β (1-2)Man α (1-3)[GlcNAc β (1-2)Man α (1-6)]Man β (1-4)GlcNAc-OH	G0530	100
GlcNAc β (1-2)Man α (1-3)[Man α (1-6)]Man β (1-4)GlcNAc-OH	G0531	103
GlcNAc β (1-3)[Neu5Ac α (2-6)]GalNAc- α -pNP	G0378	92
GlcNPhth[346Ac] β (1-3)Gal[246Bn]- β -MP	G0299	80
GlcNPhth[36Bn,4Ac]- β -MP	M1834	44
Globo-H-PrNH ₂	G0447	103
D-Glucal	G0274	29
D-Glucamine	G0252	121
Glucan from Black Yeast	G0331	115
Glucosylase from <i>Rhizopus</i> (contains 50% Diatomaceous earth)	M0035	164
Gluconic Acid (contains Gluconolactone) (45-50% in Water)	G0036	30
D-(+)-Glucono-1,5-lactone	G0039	30
β -D-Glucopyranose 1-Phosphate Disodium Salt	G0339	30
2-O- α -D-Glucopyranosyl-L-ascorbic Acid	G0394	80
D-Glucosamic Acid	G0042	43
D-(+)-Glucosamine Hydrochloride	G0044	44
D-Glucosamine Oxime Hydrochloride	G0045	44
D-(+)-Glucose	G0048	30
L-(-)-Glucose	G0226	30
β -D-Glucose (contains α -D-Glucose)	G0047	30
D-Glucose Diethyl Mercaptal	G0259	30
Glucose Oxidase from <i>Aspergillus niger</i>	G0050	164
D-Glucose 6-Phosphate Barium Salt Heptahydrate	G0052	31
β -Glucosidase from Almonds	G0035	164
α -Glucosyl Hesperidin	G0398	92
Glucotropaeolin Potassium Salt	G0397	31
D-Glucuronamide	G0223	48
D-Glucuronic Acid	G0302	48
D-Glucurono-6,3-lactone	G0055	48
DL-Glyceraldehyde Diethyl Acetal	G0216	121
Glycerol Ascorbate	G0451	121
N-Glycolyl-D-mannosamine Pentaacetate	G0463	60
N-Glycolylneuraminic Acid	G0336	66
Glycosynthase (Endo-M-N175Q) Recombinant: from <i>Mucor hiemalis</i> expressed in <i>Escherichia coli</i> (100m units/vial)	G0365	161
Glycyrrhizin	G0150	80
Glycyrrhizin Dipotassium Salt Hydrate	G0270	75
Glycyrrhizin Monoammonium Salt Hydrate	G0151	82
Glycyrrhizin Trisodium Salt Hydrate	G0217	86
G0 MP Glycoside	G0470	100
3-G1 MP Glycoside	G0471	101
6-G1 MP Glycoside	G0472	101
GN ₂ M ₃ GN ₂ -MP	G0470	100
GN ₂ M ₃ GN ₁ -OH	G0530	100
GN ₂ M ₃ GN ₁ -OH	G0531	103
Goat Anti-Mouse IgG (1mg/vial)	G0386	177

Goat Anti-Mouse IgG Biotin Conjugate (0.1mg/vial)	G0387.. 177
Goat Anti-Mouse IgG DTBTA-Eu ³⁺ Conjugate	G0505.. 177
Goat Anti-Mouse IgG FITC Conjugate	G0406.. 177
Goat Anti-Mouse IgG HRP Conjugate	G0407.. 177
Goat Anti-Mouse IgM	G0408.. 177
Goat Anti-Mouse IgM Biotin Conjugate	G0432.. 177
Goat Anti-Mouse IgM FITC Conjugate	G0453.. 178
Goat Anti-Mouse IgM HRP Conjugate	G0417.. 178
Goat Anti-Rabbit IgG (Preservative : 0.07% NaN ₃) (1mg/vial)	G0388.. 178
Goat Anti-Rabbit IgG Biotin Conjugate (Preservative : 0.05% NaN ₃ , Stabilizer : 1% BSA) (0.1mg/vial)	G0389.. 178
Goat Anti-Rabbit IgG DTBTA-Eu ³⁺ Conjugate	G0506.. 178
Goat Anti-Rabbit IgG FITC Conjugate	G0452.. 178
Goat Anti-Rabbit IgG HRP Conjugate	G0418.. 178
G2-peptide	G0466.. 102
Guar Gum	G0478.. 115
L-(+)-Gulonic Acid γ -Lactone	G0235.. 50
L-Gulonolactone	G0235.. 50
L-Gulose	G0239.. 50

H

Hafnocene Dichloride	H0914.. 138
Helicin	H0908.. 31
Heparin Sodium Salt from Hog intestine	H0393.. 115
Heptasaccharide Glc,Xyl ₃	H1041.. 103
Heptasaccharide Glc,Xyl ₃	H1044.. 103
Hesperidin	H0049.. 80
1,2,3,4,5,6-Hexa-O-[11-[4-(4-hexylphenylazo)- phenoxy]undecanoyl]-D-mannitol	H1452.. 55
N-Hexanoyl-D-glucosamine	H0118.. 44
Hexyldimethyloctylammonium Bromide	H0989.. 138
HNK-1 Biotin	H1487.. 103
HNK-1 Ethylazide	H1333.. 103
HOBT Monohydrate	H0468.. 139
HOSu	H0623.. 139
H type 1 β -pNP Glycoside	F0894.. 89
H type 3 α -pNP Glycoside	F0895.. 89
H type 3 β -pNP Glycoside	F0896.. 89
Hunig's Base	D1599.. 135
Hyaluronate Hexasaccharide	H1285.. 103
Hyaluronate Tetrasaccharide	H1284.. 96
Hyaluronic Acid from Cockscomb	H0595.. 115
Hyaluronidase from Bovine Testes	H0164.. 164
Hydrazine Monohydrate	H0172.. 138
Hydrazine Monohydrate (79%)	H0204.. 138
Hydrazine Acetate	H1112.. 138
Hydrogen Bromide (30% in Acetic Acid, ca. 5.1mol/L) [for Peptide research]	H0182.. 138
1-Hydroxybenzotriazole Monohydrate	H0468.. 139
Hydroxyethyl Cellulose (200-300mPa·s, 2% in Water at 20°C)	H0242.. 115
Hydroxyethyl Cellulose (800-1,500mPa·s, 2% in Water at 20°C)	H0418.. 115
Hydroxyethyl Cellulose (4,500-6,500mPa·s, 2% in Water at 25°C)	H0392.. 115
Hydroxypropyl Cellulose (3-6mPa·s, 2% in Water at 20°C)	H0473.. 116
Hydroxypropyl Cellulose (6-10mPa·s, 2% in Water at 20°C)	H0474.. 116
Hydroxypropyl Cellulose (150-400mPa·s, 2% in Water at 20°C)	H0386.. 116
Hydroxypropyl Cellulose (1,000-4,000mPa·s, 2% in Water at 20°C)	H0475.. 116
Hydroxypropyl- β -cyclodextrin	H0979.. 108
N-Hydroxysuccinimide	H0623.. 139
Hygromycin B	H1509.. 121

I

Icariin	I0862.. 62
D-Iditol	I0724.. 51
L-Iditol	I0725.. 51
Imidazole	I0001.. 139
Indican (Plant Indican)	I1012.. 31
3-Indole-D-glucoside	I1012.. 31
allo-Inositol	I0629.. 52
epi-Inositol	I0628.. 52
muco-Inositol	I0630.. 52
myo-Inositol	I0040.. 52
scyllo-Inositol	I0631.. 52

1L-epi-2-Inosose	I0634.. 52
Inulin (by Enzymatic synthesis)	I1067.. 116
Invertose	I0043.. 121
Iodobenzene Diacetate	I0330.. 139
Iodomethane (stabilized with Copper chip)	I0060.. 139
N-Iodosuccinimide	I0074.. 139
Iron(II) Gluconate Hydrate	G0038.. 31
Isomaltose	I0231.. 80
Isomaltotriose	I0329.. 92
Isomannide	I0406.. 122
(+)-5,6-O-Isopropylidene-L-ascorbic Acid	I0507.. 122
2,3-O-Isopropylidene-D-erythronolactone	I0454.. 12
1,2-O-Isopropylidene- α -D-glucofuranose	I0400.. 31
1,2-O-Isopropylidene- α -D-glucurono-6,3-lactone	I0688.. 48
3,4-O-Isopropylidene-D-mannitol	I0489.. 55
(+)-2,3-O-Isopropylidene-L-threitol	I0376.. 122
(-)-2,3-O-Isopropylidene-D-threitol	I0375.. 122
1,2-O-Isopropylidene- α -D-xylofuranose	I0721.. 72
Isopropyl 1-Thio- β -D-galactopyranoside	I0328.. 18
Isosorbide	I0407.. 122
Isosorbide 5-Nitrate	I0403.. 122

K

Kanamycin Monosulfate	K0047.. 122
1-Kestose	K0032.. 92

L

L2	L0324.. 80
L4	L0325.. 80
LacDiNac Dimer Ethylazide	L0237.. 96
LacDiNac MP Glycoside	M1733.. 81
LacDiNac(I) MP Glycoside	M1776.. 81
Lac β (1-4)Lac- β -C ₁₀	L0229.. 97
LacMP	M1805.. 78
LacMP 3'-OH, per OBn	M1727.. 77
LacMP 4'-OH, per OBn	M1726.. 77
LacMP per OAc	M1694.. 76
Lactobionic Acid (mixture of Acid form and Lactone form)	L0005.. 81
D-(+)-Lactose Monohydrate	L0008.. 81
Lactulose	L0140.. 81
Lectin, Fucose specific from <i>Aspergillus oryzae</i> (5mg/mL, PBS pH6.5)	L0169.. 167
Levulinic Acid	L0042.. 139
D-(-)-Levulose	F0060.. 13
L4-L4	L0286.. 97
L2-L2- β -PEG ₃ -biotin	G0516.. 97
L4-L4- β -PEG ₃ -biotin	G0517.. 97
Loganin	L0268.. 31
2,3-Lutidine	L0063.. 140
2,4-Lutidine	L0085.. 140
2,5-Lutidine	L0065.. 140
2,6-Lutidine	L0067.. 140
3,4-Lutidine	L0066.. 140
3,5-Lutidine	L0068.. 140
D-(-)-Lyxose	L0073.. 54
L-(+)-Lyxose	L0153.. 54

M

Magenta-Gal (contains ca. 10% Ethyl Acetate)	B3469.. 16
Mag-Gal (contains ca. 10% Ethyl Acetate)	B3469.. 16
Magnesium(II) Gluconate Hydrate	G0276.. 32
Maltitol	M0797.. 81
Maltitol	M0601.. 81
D-(+)-Maltose Monohydrate	M0037.. 82
Maltulose Monohydrate	M1138.. 82
Man[2Bz,3All,46Bzd] β (1-4)GlcNPhth[36Bn]- β -MP	M2442.. 82
Man α (1-2)Man α (1-3)[Man α (1-6)Man α (1-6)] Man β (1-4)GlcNac	M2439.. 104
Man α (1-3)[Man α (1-6)Man α (1-6)Man α (1-3)] Man β (1-4)GlcNac-OH	M3086.. 104
D-Mannitol	M0044.. 55
L-Mannitol	M1084.. 56
D-Mannono-1,4-lactone	M0958.. 56
N ^w -(β -D-Mannopyranosyl)-L-asparagine	M2435.. 56
D-(+)-Mannose	M0045.. 56
L-(-)-Mannose	M1308.. 56
Mannose-6-phosphate Barium Salt Hydrate	M0046.. 56
Man[6P] α (1-2)Man α (1-3)[Man[6P] α (1-6)Man α (1-6)] Man β (1-4)GlcNac β (1-4)GlcNac- β -MP	M3087.. 104

Product Name Index-⑥

M3-biotin	M2985.. 104	4-Methoxyphenyl 2,4,6-Tri- <i>O</i> -acetyl-3- <i>O</i> -benzyl- β-D-glucopyranoside	M1642... 33
MEHQ	M0123.. 141	4-Methoxyphenyl 3,4,6-Tri- <i>O</i> -acetyl-2-deoxy- 2-phthalimido-β-D-glucopyranoside	M1480... 46
D-(+)-Melezitose Hydrate	M0049... 92	4-Methoxyphenyl 2,3,6-Tri- <i>O</i> -benzyl- β-D-galactopyranoside	M2104... 20
D-(+)-Melibiose Monohydrate	M0050... 82	4-Methoxyphenyl 2,4,6-Tri- <i>O</i> -benzyl- β-D-galactopyranoside	M1592... 20
Mesyl Chloride	M0094.. 140	Methyl 5-Acetamido-4,7,8,9-tetra- <i>O</i> -acetyl- 3,5-dideoxy-2- <i>S</i> -phenyl-2-thio- <i>D</i> -glycero- <i>D</i> -galacto- 2-nonulopyranosylonate	M1706... 67
Methanamine (ca. 40% in Water, ca. 12mol/L)	M0137.. 141	Methyl 5-Acetamido-7,8,9-tri- <i>O</i> -acetyl-5- <i>N</i> ,4- <i>O</i> -carbonyl- 3,5-dideoxy-2- <i>S</i> -phenyl-2-thio- <i>D</i> -glycero-β-D-galacto- 2-nonulopyranosylonate	M2319... 67
Methanesulfonyl Chloride	M0094.. 140	Methylamine (ca. 40% in Water, ca. 12mol/L)	M0137... 141
4-Methoxybenzaldehyde Dimethyl Acetal	A1247.. 126	Methyl β- <i>D</i> -Arabinopyranoside	M1019... 11
4-Methoxybenzyl Chloride (stabilized with Amylene)	M0676.. 141	Methyl 4,6- <i>O</i> -Benzylidene-2-deoxy- α- <i>D</i> -erythro-hexopyranosid-3- <i>ulose</i> Oxime	M2081... 123
Methoxymethyltrimethylsilane	M1264.. 141	Methyl 4,6- <i>O</i> -Benzylidene-α- <i>D</i> -glucopyranoside	M1125... 33
4-Methoxyphenol	M0123.. 141	Methyl 5- <i>N</i> ,4- <i>O</i> -Carbonyl- 3,5-dideoxy-2- <i>S</i> -phenyl-2-thio- <i>D</i> -glycero- β- <i>D</i> -galacto-2-nonulopyranosylonate	M2329... 67
4-Methoxyphenyl 2- <i>O</i> -Acetyl-3- <i>O</i> -allyl-4,6- <i>O</i> -benzylidene- β-D-glucopyranoside	M2065... 32	Methyl Cellulose (13-18mPa·s, 2% in Water at 20°C)	M0290... 116
4-Methoxyphenyl 4- <i>O</i> -Acetyl-2-azido-3,6-di- <i>O</i> -benzyl- 2-deoxy-β-D-galactopyranoside	M2051... 44	Methyl Cellulose (20-30mPa·s, 2% in Water at 20°C)	M0291... 116
4-Methoxyphenyl 4- <i>O</i> -Acetyl-3,6-di- <i>O</i> -benzyl-2-deoxy- 2-phthalimido-β-D-glucopyranoside	M1834... 44	Methyl Cellulose (80-120mPa·s, 2% in Water at 20°C)	M0292... 117
4-Methoxyphenyl 3- <i>O</i> -Allyl-2-azido-4,6- <i>O</i> -benzylidene- 2-deoxy-β-D-galactopyranoside	M1643... 24	Methyl Cellulose (350-550mPa·s, 2% in Water at 20°C)	M0293... 117
4-Methoxyphenyl 3- <i>O</i> -Allyl-2-azido-4,6- <i>O</i> -benzylidene- 2-deoxy-β-D-glucopyranoside	M1638... 44	Methyl Cellulose (1,000-1,800mPa·s, 2% in Water at 20°C)	M0294... 117
4-Methoxyphenyl 3- <i>O</i> -Allyl-2- <i>O</i> -benzyl-4,6- <i>O</i> -benzylidene- β-D-galactopyranoside	M1620... 18	Methyl Cellulose (3,500-5,600mPa·s, 2% in Water at 20°C)	M0185... 117
4-Methoxyphenyl 3- <i>O</i> -Allyl-6- <i>O</i> -benzyl-2-deoxy- 2-phthalimido-β-D-glucopyranoside	M1604... 44	Methyl Cellulose (7,000-10,000mPa·s, 2% in Water at 20°C)	M0295... 117
4-Methoxyphenyl 3- <i>O</i> -Allyl-4,6- <i>O</i> -benzylidene-2-deoxy- β-D-galactopyranoside	M1598... 45	Methyl-β-cyclodextrin (mixture of several Methylated)	M1356... 108
4-Methoxyphenyl 3- <i>O</i> -Allyl-4,6- <i>O</i> -benzylidene- 2- <i>O</i> -(4-methylbenzoyl)-β-D-galactopyranoside	M1589... 18	Methyl 2,3-Di- <i>O</i> -benzoyl-4,6- <i>O</i> -benzylidene- α- <i>D</i> -glucopyranoside	M2013... 33
4-Methoxyphenyl 3- <i>O</i> -Allyl-β-D-galactopyranoside	M1590... 18	Methyl 2,3,4,6-Di- <i>O</i> -benzylidene-α- <i>D</i> -mannopyranoside	M2061... 57
4-Methoxyphenyl 3- <i>O</i> -Allyl-β-D-galactopyranoside	M1482... 19	Methyl α- <i>L</i> -Fucopyranoside	M1051... 14
4-Methoxyphenyl 2-Amino-3,6-di- <i>O</i> -benzyl-2-deoxy- β-D-glucopyranoside	M1616... 45	Methyl β- <i>L</i> -Fucopyranoside	M1050... 14
4-Methoxyphenyl 2-Azido-4,6- <i>O</i> -benzylidene-2-deoxy- β-D-galactopyranoside	M2737... 24	Methyl α- <i>D</i> -Galactopyranoside Monohydrate	M1047... 21
4-Methoxyphenyl 2-Azido-4,6- <i>O</i> -benzylidene-2-deoxy- β-D-glucopyranoside	M1637... 45	Methyl β- <i>D</i> -Galactopyranoside	M1035... 21
4-Methoxyphenyl 2-Azido-3,6-di- <i>O</i> -benzyl-2-deoxy- β-D-glucopyranoside	M1617... 45	<i>N</i> -Methyl- <i>D</i> -glucamine	M0227... 123
4-Methoxyphenyl 2- <i>O</i> -Benzoyl-3,6-di- <i>O</i> -benzyl- β-D-glucopyranoside	M2434... 32	Methyl- <i>D</i> -glucamine Hydrochloride [for Buffer]	M0713... 33
4-Methoxyphenyl 3- <i>O</i> -Benzyl-4,6- <i>O</i> -benzylidene-2-deoxy- 2-phthalimido-β-D-glucopyranoside	M1609... 45	Methyl α- <i>D</i> -glucopyranoside	M0228... 33
4-Methoxyphenyl 3- <i>O</i> -Benzyl-4,6- <i>O</i> -benzylidene- β-D-glucopyranoside	M1640... 32	Methyl β- <i>D</i> -Glucopyranoside Hemihydrate	M0709... 33
4-Methoxyphenyl 3- <i>O</i> -Benzyl-2-deoxy-2-phthalimido- β-D-glucopyranoside	M1610... 45	Methyl Hesperidine	M0338... 82
4-Methoxyphenyl 3- <i>O</i> -Benzyl-β-D-galactopyranoside	M1725... 19	Methylhydrazine	M0558... 141
4-Methoxyphenyl 3- <i>O</i> -Benzyl-β-D-glucopyranoside	M1641... 32	Methyl α- <i>D</i> -Mannopyranoside	M0368... 57
4-Methoxyphenyl 4,6- <i>O</i> -Benzylidene-2-deoxy- 2-phthalimido-β-D-glucopyranoside	M1479... 45	Methyl (Phenyl 5-Acetamido-4,7,8-tri- <i>O</i> -acetyl-9-azido-3,5,9-trideoxy-2-thio- <i>D</i> -glycero- β-D-galacto-2-nonulopyranosid)onate	M2695... 67
4-Methoxyphenyl 4,6- <i>O</i> -Benzylidene- β-D-galactopyranoside	M1710... 19	Methyl (Phenyl 5-Acetoxyacetamido-4,7,8-tri- <i>O</i> -acetyl-9-azido-3,5,9-trideoxy-2-thio- <i>D</i> -glycero- β-D-galacto-2-nonulopyranosid)onate	M2696... 67
4-Methoxyphenyl 2,6-Bis- <i>O</i> -(4-methylbenzoyl)- β-D-galactopyranoside	M1597... 19	Methyl (Phenyl 2,3,4-Tri- <i>O</i> -acetyl-1-thio- β-D-glucopyranosid)uronate	M1759... 48
4-Methoxyphenyl 3,6-Di- <i>O</i> -benzyl-2-deoxy-2-phthalimido- β-D-glucopyranoside	M1615... 46	Methyl β- <i>D</i> -Ribofuranoside	M1965... 63
4-Methoxyphenyl 2,6-Di- <i>O</i> -benzyl-β-D-galactopyranoside	M1634... 19	Methyl 1,2,3,4-Tetra- <i>O</i> -acetyl-β-D-glucuronate	M1868... 48
4-Methoxyphenyl 2,6-Di- <i>O</i> -benzyl-3,4- <i>O</i> -isopropylidene- β-D-galactopyranoside	M1633... 19	Methyl 2,3,4,6-Tetra- <i>O</i> -acetyl-1-thio- β-D-glucopyranoside	M1682... 33
4-Methoxyphenyl β-D-Galactopyranoside	M1481... 19	Methyl 2,3,4,6-Tetra- <i>O</i> -acetyl-1-thio- α- <i>D</i> -mannopyranoside (contains ca. 5% β-isomer)	M1501... 57
4-Methoxyphenyl β-D-Glucopyranoside	M1631... 32	Methyl 2,3,4,6-Tetra- <i>O</i> -pivaloyl- <i>D</i> -mannopyranoside	M2102... 57
4-Methoxyphenyl 3,4- <i>O</i> -Isopropylidene-2,6-bis- <i>O</i> -(4-methylbenzoyl)-β-D-galactopyranoside	M1596... 20	Methyl 7,8,9-Tri- <i>O</i> -acetyl-5- <i>N</i> ,4- <i>O</i> -carbonyl-3,5-dideoxy- 2- <i>S</i> -phenyl-2-thio- <i>D</i> -glycero-β-D-galacto- 2-nonulopyranosylonate	M2330... 67
4-Methoxyphenyl 3,4- <i>O</i> -Isopropylidene- β-D-galactopyranoside	M1593... 20	Methyl 3,4,6-Tri- <i>O</i> -acetyl-2-deoxy-2-phthalimido-1-thio- β-D-glucopyranoside	M1649... 46
4-Methoxyphenyl 3,4- <i>O</i> -Isopropylidene- 6- <i>O</i> -(4-methylbenzoyl)-β-D-galactopyranoside	M1594... 20	Methyl 2,3,4-Tri- <i>O</i> -acetyl-1-thio-β- <i>L</i> -fucopyranoside	M1626... 14
4-Methoxyphenyl α- <i>D</i> -Mannopyranoside	M1646... 56	Methyl 2,3,6-Tri- <i>O</i> -benzoyl-α- <i>D</i> -galactopyranoside	M1933... 21
4-Methoxyphenyl 2,3,4,6-Tetra- <i>O</i> -acetyl- β-D-galactopyranoside	M1477... 20	Methyl 2,3,4-Tri- <i>O</i> -benzoyl-α- <i>D</i> -glucopyranoside	M1487... 34
4-Methoxyphenyl 2,3,4,6-Tetra- <i>O</i> -acetyl- β-D-glucopyranoside	M1630... 32	Methyl 2,3,4-Tri- <i>O</i> -benzyl-α- <i>D</i> -glucopyranoside	M1488... 34
4-Methoxyphenyl 2,3,4,6-Tetra- <i>O</i> -acetyl- α- <i>D</i> -mannopyranoside	M1647... 57	Methyl 2,3,4-Tri- <i>O</i> -benzyl-1-thio-β- <i>L</i> -fucopyranoside	M1628... 14
4-Methoxyphenyl 2,3,4,6-Tetra- <i>O</i> -benzyl- β-D-galactopyranoside	M1588... 20	Methyl Tributylstannyl Sulfide	M1494... 141
		Methyl Triflate	T2029... 142
		Methyl Trifluoroacetate	T0680... 141
		Methyl Trifluoromethanesulfonate	T2029... 142
		4-Methylumbelliferyl 2-Acetamido-2-deoxy- β-D-galactopyranoside	M3029... 25
		4-Methylumbelliferyl β- <i>D</i> -Cellobioside	M3028... 82
		4-Methylumbelliferyl β- <i>D</i> -Glucuronide Hydrate	M3026... 49
		4-Methylumbelliferyl α- <i>D</i> -Mannopyranoside	M3023... 57
		Methyl-β- <i>D</i> -xylopyranoside	M1253... 72

M3(Fuc ₆)-biotin	M2986	104	4-Nitrophenyl β-D-Fucopyranoside	N0774	15
M5 glycan (GN ₁ type)	M3086	104	2-Nitrophenyl β-D-Galactopyranoside		
M5GN ₁ -OH	M3086	104	[Substrate for β-D-Galactosidase]	N0418	21
Migliol	M2302	123	4-Nitrophenyl α-D-Galactopyranoside		
Monoammonium Glycyrrhizinate Hydrate	G0151	82	[Substrate for α-D-Galactosidase]	N0492	21
Mono-6-(Fmoc-Gln-OtBu)-β-CD	M2978	108	4-Nitrophenyl β-D-Galactopyranoside		
Mono-6-O-mesitylenesulfonyl-γ-cyclodextrin	M1212	108	[Substrate for β-Galactosidase]	N0616	21
Mono-6-O-(2-naphthyl)-per-O-methyl-α-cyclodextrin	M1876	108	4-Nitrophenyl α-D-Glucopyranoside		
Mono-2-O-(p-toluenesulfonyl)-α-cyclodextrin	M1956	109	[Substrate for α-D-Glucosidase]	N0493	34
Mono-2-O-(p-toluenesulfonyl)-β-cyclodextrin Hydrate	M1741	109	4-Nitrophenyl β-D-Glucopyranoside Monohydrate		
Mono-2-O-(p-toluenesulfonyl)-γ-cyclodextrin	M1957	109	[Substrate for β-D-Glucosidase]	N0235	34
Mono-6-O-(p-toluenesulfonyl)-α-cyclodextrin	M1644	109	4-Nitrophenyl α-D-Glucuronide	N0857	49
Mono-6-O-(p-toluenesulfonyl)-β-cyclodextrin	M1381	109	4-Nitrophenyl β-D-Glucuronide		
Mono-6-O-(p-toluenesulfonyl)-γ-cyclodextrin	M1645	109	[Substrate for β-Glucuronidase]	N0618	49
Morph-DAST	M1573	142	4-Nitrophenyl α-D-Mannopyranoside		
Morpholinosulfur Trifluoride	M1573	142	[Substrate for α-Mannosidase]	N0619	57
Mouse Anti-Human IgG Fc	M2977	179	2-Nitrophenyl β-D-Xylopyranoside	N0868	72
Mouse Anti-Human IgG Fc Biotin Conjugate	M3053	179	4-Nitrophenyl β-D-Xylopyranoside		
Myricitrin	M2361	62	[Substrate for β-Xylosidase]	N0620	72
			Nonasaccharide Glc ₄ Xyl ₃ Gal ₂	N0693	105
			Nonyl β-D-Glucopyranoside	N0909	34
N			O		
NANA	A1105	66	6-OAc PtdGlc(di-acyl Chain)	A2638	34
NANA Hydrate	A0639	66	Octa-O-acetyl D-(+)-Sucrose	S0052	85
Naringin Hydrate	N0073	83	n-Octyl β-D-Glucopyranoside [for Biochemical Research]	O0355	34
NBS	B0656	129	n-Octyl β-D-Glucopyranoside	O0232	35
Neohesperidin Dihydrochalcone Hydrate	N0675	83	Ononin	O0405	35
Neu5Ac	A1105	66	ONPG	N0418	21
Neu5Ac Hydrate	A0639	66	Oxalyl Chloride	O0082	142
Neu5Ac α (2-3)Gal-β-ethylamine	N0947	83			
Neu5Ac α (2-6)Gal-β-ethylamine	N0948	83	P		
Neu5Ac α (2-3)Gal β (1-4)GlcNAc-β-ethylamine	N0949	92	Paeoniflorin	P1876	35
Neu5Ac α (2-6)Gal β (1-4)GlcNAc-β-ethylamine	N0950	92	Paeonolide	P1879	85
Neu5Ac α (2-6)Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc			Paeonoside	A2253	26
β (1-3)Gal β (1-4)GlcNAc-β-propylamine	N1118	105	Palatinose Hydrate	P1234	85
Neu5Ac α (2-6)Gal β (1-4)GlcNAc β (1-3)Gal β (1-4)GlcNAc-β-propylamine	N1117	105	Palladium 10% on Carbon (wetted with ca. 55% Water)	P1491	142
Neu5Ac α (2-3)Gal β (1-3)GlcNAc-β-pNP	N0853	93	Palladium 10% on Carbon (wetted with ca. 55% Water)		
Neu5Ac α (2-3)Gal β (1-4)GlcNAc-β-pNP	N0854	93	[Useful catalyst for coupling reaction, etc.]	P1785	142
Neu5Ac α (2-6)Gal β (1-3)GlcNAc-β-pNP	N0855	93	Palladium 5% on Carbon (wetted with ca. 55% Water)	P1490	143
Neu5Ac α (2-6)Gal β (1-4)GlcNAc-β-pNP	N0856	93	Palladium(II) Chloride	P1489	143
Neu5Ac α (2-3)Gal β (1-4)Glc-β-pNP	N0860	93	Palladium Hydroxide (contains Pd, PdO) on Carbon		
Neu5Ac α (2-3)Gal β (1-4)Glc Sodium Salt	S0885	94	(wetted with ca. 50% Water)	P1528	143
Neu5Ac α (2-3)Gal-β-MP	N0791	83	6-O-Palmitoyl-L-ascorbic Acid	A0540	123
Neu5Ac α (2-6)Gal-β-MP	N0792	83	Paromomycin Sulfate	P2092	123
Neu5Ac α (2-3)Gal β MP Glycoside	N0791	83	Pearlman's Catalyst (contains Pd, PdO)		
Neu5Ac α (2-6)Gal β MP Glycoside	N0792	83	(wetted with ca. 50% Water)	P1528	143
Neu5Ac α (2-6)GalNAc-α-pNP	N0890	83	Pectin from Citrus	P0024	117
Neu5Ac α (2-6) N-Glycan	N1065	104	Pectinase from <i>Aspergillus niger</i>	P0028	165
Neu5Ac α (2-6) N-Glycan 2AB	N1073	104	PEG _n -Azide	A2294	127
Neu5Ac[1Me,4789Ac] α (2-6)Gal[24Bz,3Bn]-β-MP	M1761	84	2,4,7,8,9-Penta-O-acetyl-		
Neu5Ac[1Me,4789Ac] α (2-3)Gal[246Bz]-β-MP	N0846	84	N-acetylneuraminic Acid Methyl Ester	M1707	67
Neu5Ac[1Me,478Ac,9N ₃]-β-SPh	M2695	67	N,N',N'',N''',N''''-Pentaacetylchitopentaose	P2027	105
Neu5Ac[1Me,4789Ac]-SPh	M1706	67	Penta-O-acetyl-β-D-galactopyranose	G0247	21
Neu5Gc	G0336	66	Penta-O-acetyl-α-D-glucopyranose	G0225	35
Neu5GcAc[1Me,4789Ac] α (2-6)Gal[24Bz,3Bn]-β-MP	M1763	84	Penta-O-acetyl-β-D-glucopyranose	P0028	35
Neu5GcAc[1Me,4789Ac] α (2-3)Gal[246Bz]-β-MP	N0816	84	1,2,3,4,6-Penta-O-acetyl-D-mannopyranose	P1514	58
Neu5GcAc[1Me,478Ac,9N ₃]-β-SPh	M2696	67	1,2,3,4,6-Penta-O-pivaloyl-D-mannopyranose	P1803	58
Neu5Gc α (2-3)Gal-β-MP	N0793	84	Perfluoromethanesulfonic Acid	T0751	148
Neu5Gc α (2-6)Gal-β-MP	N0794	84	Phenyl N-Acetyl-α-D-glucosaminide	P0130	46
Neu5Gc α (2-3)Gal β MP Glycoside	N0793	84	Phenyl 2-O-Acetyl-3,4,6-tri-O-benzyl-1-thio-		
Neu5Gc α (2-6)Gal β MP Glycoside	N0794	84	β-D-galactopyranoside	P2078	22
Neu5Gc α (2-3)[GalNAc β (1-4)]Gal β (1-4)Glc-β-propylamine	N0971	97	Phenyl 3-O-Allyl-2,4,6-tri-O-benzyl-1-thio-		
[Neu5Gc α (2-6)] ₂ G ₂ GN ₂ M ₃ GN ₂ -MP	N1046	105	β-D-galactopyranoside	P1660	22
Neu5Gc α (2-6) N-Glycan	N1064	105	Phenyl N-Benzyl-2-amino-4,6-O-benzylidene-		
Neu5Gc α (2-6) N-Glycan 2AB	N1075	105	2-N,3-O-carbonyl-2-deoxy-1-thio-β-D-glucopyranoside	P1762	46
Neu5Gc α (2-6) N-Glycan MP Glycoside	N1046	105	Phenyl 4,6-O-Benzylidene-1-thio-β-D-glucopyranoside	P1475	35
Neu5Troc[1Me,4789Ac] α (2-3)Gal[26Bn]-β-MP	M1729	84	Phenyl 2-Deoxy-1-thio-2-(2,2,2-trichloroethoxyformamido)-β-D-galactopyranoside	P1643	25
NHS	H0623	139	Phenyl β-D-Galactopyranoside	P1326	22
NIS	I0074	139	Phenyl α-D-Glucopyranoside	P1346	35
Nistose Trihydrate	N0571	97	Phenyl β-D-Glucopyranoside Hydrate	P0178	36
2-Nitrobenzoic Acid	N0155	142	Phenyl Mercaptan	B0041	127
4-Nitrophenol	N0220	142	Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio-		
4-Nitrophenyl 2-Acetamido-2-deoxy-β-D-galactopyranoside	N0865	25	β-D-galactopyranoside	P1477	22
4-Nitrophenyl 2-Acetamido-2-deoxy-β-D-glucopyranoside	N0866	46	Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio-		
4-Nitrophenyl β-D-Cellobioside	N0867	85	β-D-glucopyranoside	P1476	36
4-Nitrophenyl α-L-Fucopyranoside	N0392	14	Phenyl 2,3,4,6-Tetra-O-acetyl-1-thio-		
			α-D-mannopyranoside	P2521	58

Product Name Index-8

Phenyl 2,3,4,6-Tetra-O-benzyl-1-thio- β-D-galactopyranoside.....	P1679... 22
Phenyl 2,4,6-Tri-O-acetyl-3-O-allyl-1-thio- β-D-galactopyranoside.....	P1680... 22
Phenyl 2,4,6-Tri-O-acetyl-3-O-allyl-1-thio- β-D-glucopyranoside.....	P1736... 36
Phenyl 3,4,6-Tri-O-acetyl-2-deoxy-1-thio-2- (2,2,2-trichloroethoxyformamido)-β-D-galactopyranoside ..	P1642... 25
Phenyl 3,4,6-Tri-O-acetyl-2-deoxy-1-thio-2- (2,2,2-trichloroethoxyformamido)-β-D-glucopyranoside ..	P1866... 46
Phenyl 2,3,4-Tri-O-benzyl-1-thio-β-L-fucopyranoside.....	P1842... 15
Phlorizin Hydrate.....	P0248... 36
Phosphorus Tribromide.....	P1743... 143
Phytic Acid (ca. 50% in Water, ca. 1.1mol/L).....	P0409... 52
Phytin.....	P0410... 53
Phytosphingosine.....	P1765... 143
Piceid.....	P1878... 36
PIDA.....	I0330... 139
D-Pinitol.....	P2219... 53
Piperidinium Acetate.....	P1481... 143
PNPG.....	N0616... 21
Polyarabinogalactan from Larch Wood.....	A1328... 111
Polydatin.....	P1878... 36
Potassium tert-Butoxide.....	P1008... 143
Potassium Carbonate.....	P1748... 144
Potassium Gluconate.....	G0040... 36
Potassium Hyaluronate from Cockscomb.....	H0652... 117
S-Potassium Thioacetate.....	T2030... 144
Protein A Recombinant, expressed in <i>Escherichia coli</i>	P2366... 182
Protein A Agarose.....	P2461... 182
Protein A Biotin Conjugate.....	P2407... 182
Protein A HRP Conjugate.....	P2466... 182
D-Psicose.....	P1699... 61
L-Psicose.....	P1778... 61
PTSA Monohydrate.....	T0267... 147
Puerarin.....	P1886... 36
Pullulan.....	P0978... 118

Q

(+)- <i>epi</i> -Quercitol.....	Q0070... 53
(+)- <i>proto</i> -Quercitol.....	Q0071... 53

R

D-(+)-Raffinose Pentahydrate.....	R0002... 93
Rebaudioside A.....	R0095... 93
L-(+)-Rhamnose Monohydrate.....	R0013... 62
L-(-)-Rhodose.....	F0065... 14
Ribitol.....	A0171... 63
β-D-Ribofuranose 1-Acetate 2,3,5-Tribenzoate.....	R0067... 63
β-L-Ribofuranose 1-Acetate 2,3,5-Tribenzoate.....	R0080... 63
D-(+)-Ribono-1,4-lactone.....	R0063... 63
D-(-)-Ribose.....	R0025... 64
L-Ribose.....	R0068... 64
α-D-Ribose 1,5-Bis(phosphate) Tetrasodium Salt.....	R0082... 64
β-D-Ribose 1,5-Bis(phosphate) Tetrasodium Salt.....	R0083... 64
Ribose-5-phosphate Barium Salt Hydrate.....	R0026... 64
Rose-Gal.....	C2371... 17
Roxithromycin.....	R0164... 123
Rutin Hydrate.....	R0035... 85
Rutinose.....	R0062... 85
Rutinose Heptaacetate.....	H0628... 85

S

Salicin.....	S0003... 37
Salmon-Gal.....	C2371... 17
Saponin.....	S0019... 123
SGP.....	S0523... 106
SG-pNP.....	N0913... 99
Sheep Anti-Chicken IgY.....	S0998... 179
Sheep Anti-Chicken IgY Biotin Conjugate.....	H1619... 179
Sheep Anti-Chicken IgY HRP Conjugate.....	S0999... 179
Sialylglycopeptide.....	S0523... 106
3'-Sialyllactose Sodium Salt.....	S0885... 94
6'-Sialyllactose Sodium Salt.....	S0886... 94
Sialyl Lewis X-Lactose.....	S0849... 106
Sialyl Lewis X-Lactose Ethylamine.....	S0923... 106
Sialyl Lewis X-Lactose Ethylazide.....	S0922... 106
Sialyl Neolactotetraosylceramide (=Sialyl nLc ₄ Cer).....	S0910... 106
Sialyl nLc ₄ Cer.....	S0910... 106

Silver Triflate.....	T1331... 144
Silver Trifluoromethanesulfonate.....	T1331... 144
Sinigrin Hydrate.....	S0156... 37
Sodium Acetate.....	S0559... 144
Sodium L-Ascorbate.....	A0539... 124
Sodium Azide.....	S0489... 144
Sodium Borohydride.....	S0480... 144
Sodium Cyanoborohydride [Reducing Agent].....	S0396... 144
Sodium Glucoheptonate Dihydrate.....	G0214... 124
Sodium Gluconate.....	G0041... 37
Sodium Hyaluronate from Cockscomb.....	H0603... 118
Sodium Hydride (60%, dispersion in Paraffin Liquid).....	S0481... 145
Sodium Methoxide (ca. 5mol/L in Methanol).....	S0486... 145
Sodium Triacetoxyborohydride.....	S0394... 145
Sophoricoside.....	S0835... 37
D-Sorbitol.....	S0065... 37
L-Sorbitol.....	S0388... 37
D-Sorbose.....	S0390... 69
L-(-)-Sorbitol.....	S0066... 69
D-Sphingosine.....	S0874... 145
SSEA-1-PrNH ₂	S0946... 106
Stachyose Hydrate.....	S0397... 97
6-O-Stearoyl-L-ascorbic Acid.....	A0617... 124
Stevioside.....	S0594... 86
Streptavidin from <i>Streptomyces avidinii</i>	S0951... 182
Streptavidin DTBTA-Eu ³⁺ Conjugate.....	S0993... 182
Streptavidin FITC Conjugate.....	S0966... 183
Streptavidin HRP Conjugate.....	S0972... 183
Streptomycin Sulfate [for Protein Research].....	S0834... 124
Streptomycin Sulfate.....	S0585... 124
N-Succinimidyl D-Biotinate.....	S0491... 145
Sucralose.....	S0839... 86
D-(+)-Sucrose.....	S0111... 86
Sucrose Fatty Acid Ester.....	S0112... 124
Sulfur Trioxide - Triethylamine Complex.....	T2136... 145
Swertiamarin.....	S0897... 37
Synaptase from Almonds.....	G0035... 164

T

D-Tagatose.....	T1501... 70
L-Tagatose.....	T2535... 70
D-Talitol.....	T1398... 71
L-Talitol.....	T2536... 71
D-(+)-Talose.....	T0869... 71
L-(-)-Talose.....	T1767... 71
Tamarind Gum from Tamarind seed, Polysaccharide.....	T0909... 118
TATM.....	T2307... 58
TBAB.....	T0054... 146
TBABr.....	T0054... 146
TBAF (ca. 1mol/L in Tetrahydrofuran).....	T1338... 146
TBAOH (40% in Water).....	T1685... 146
TBDMSCI.....	B0995... 129
TBDMs Triflate.....	T1525... 130
TBDPSCI.....	B1223... 130
TBSCI.....	B0995... 129
TBS Triflate.....	T1525... 130
TEMPO Free Radical.....	T1560... 147
Teniposide.....	T3109... 38
4,7,8,9-Tetra-O-acetyl-N-acetylneuraminic Acid Methyl Ester.....	A1822... 68
1,2,4,6-Tetra-O-acetyl-3-O-allyl-β-D-glucopyranose.....	T2449... 38
1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α-D-galactopyranose.....	T1731... 25
1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- β-D-glucopyranose.....	T2196... 47
1,3,4,6-Tetra-O-acetyl-2-azido-2-deoxy- α-D-mannopyranose.....	T1733... 60
N,N',N'',N'''-Tetraacetylchitotetraose.....	T2910... 98
1,3,4,6-Tetra-O-acetyl-2-deoxy-2-phthalimido- β-D-glucopyranose.....	T2047... 47
1,2,3,4-Tetra-O-acetyl-α-L-fucopyranose.....	T2207... 15
2,3,4,6-Tetra-O-acetyl-α-D-galactopyranosyl 2,2,2-Trichloroacetimidate.....	T2295... 22
2,3,4,6-Tetra-O-acetyl-α-D-glucopyranosyl Bromide (stabilized with CaCO ₃).....	T1961... 38
2,3,4,6-Tetra-O-acetyl-α-D-glucopyranosyl Fluoride.....	T1995... 38
2,3,4,6-Tetra-O-acetyl- β-D-glucopyranosyl Isothiocyanate [for HPLC Labeling] ..	A5514... 38
2,3,4,6-Tetra-O-acetyl- β-D-glucopyranosyl 2,2,2-Trichloroacetimidate.....	T2491... 38

1,3,4,6-Tetra- <i>O</i> -acetyl- β -D-mannopyranose	T1459	58
2,3,4,6-Tetra- <i>O</i> -acetyl-D-mannopyranosyl Fluoride	T2567	58
2,3,4,6-Tetra- <i>O</i> -acetyl-PtdGlc(di-acyl Chain)	P2079	38
2,3,4,6-Tetra- <i>O</i> -acetyl-PtdGlc(mono-acyl Chain)	P2080	39
Tetra- <i>O</i> -acetyl- β -D-ribofuranose	R0066	64
Tetra- <i>O</i> -acetyl- β -D-ribofuranose	R0065	64
1,3,4,6-Tetra- <i>O</i> -acetyl-2- <i>O</i> -(trifluoromethanesulfonyl)- β -D-mannopyranose	T2307	58
2,3,4,6-Tetra- <i>O</i> -benzoyl-D-glucopyranose	T2020	39
2,3,4,6-Tetra- <i>O</i> -benzoyl- β -D-glucopyranosyl Isothiocyanate [for HPLC Labeling]	A5515	39
2,3,4,6-Tetra- <i>O</i> -benzoyl- α -D-glucopyranosyl <i>p</i> -Trifluoromethylbenzylthio- <i>N</i> -(<i>p</i> -trifluoromethylphenyl)-formimidate	T1991	39
2,3,4,6-Tetra- <i>O</i> -benzoyl-D-mannopyranose	T2056	58
2,3,4,6-Tetra- <i>O</i> -benzyl-D-glucopyranose	T1914	39
2,3,4,6-Tetra- <i>O</i> -benzyl-D-glucopyranosyl Fluoride	T1971	39
2,3,4,6-Tetra- <i>O</i> -benzyl- α -D-glucopyranosyl Fluoride	T1922	39
2,3,4,6-Tetra- <i>O</i> -benzyl- β -D-glucopyranosyl Fluoride	T1923	40
2,3,4,6-Tetra- <i>O</i> -benzyl- α -D-glucopyranosyl <i>N,N,N,N'</i> -Tetramethylphosphorodiamidate (ca. 20% in Benzene)	T2197	40
2,3,4,6-Tetra- <i>O</i> -benzyl- α -D-glucopyranosyl <i>p</i> -Trifluoromethylbenzylthio- <i>N</i> -(<i>p</i> -trifluoromethylphenyl)-formimidate	T1999	40
Tetrabenzyl Pyrophosphate	P1223	145
Tetrabutylammonium Borohydride [Reducing Reagent]	T0917	146
Tetrabutylammonium Bromide	T0054	146
Tetrabutylammonium Fluoride (ca. 1mol/L in Tetrahydrofuran)	T1338	146
Tetrabutylammonium Hydrogen Sulfate	T0835	146
Tetrabutylammonium Hydroxide (40% in Water)	T1685	146
Tetrabutylammonium <i>p</i> -Nitrophenoxide	T2669	146
5,10,15,20-Tetrakis[3,5-bis(per- <i>O</i> -methyl- α -cyclodextrin-6-yloxy)phenyl]-21 <i>H</i> ,23 <i>H</i> -porphine	T2452	109
5,10,15,20-Tetrakis[4-(per- <i>O</i> -methyl- α -cyclodextrin-6-yloxy)phenyl]porphyrin	T2451	110
Tetrakis(triphenylphosphine)palladium(0)	T1350	146
2,2,6,6-Tetramethylpiperidine 1-Oxyl Free Radical	T1560	147
2,3,4,6-Tetra- <i>O</i> -pivaloyl-D-mannopyranosyl Fluoride	T2568	59
TFA	T0431	148
Thioacetic Acid	T0189	147
Thiophenol	B0041	127
L-Threitol	T1647	124
TMCS	C0306	132
TMS-Cl	C0306	132
TMS-Diazomethane (ca. 10% in Hexane, ca. 0.6mol/L)	T1146	148
TMSOTf	T0871	149
Tobramycin	T2503	125
<i>p</i> -Toluenesulfonic Acid Monohydrate	T0267	147
<i>p</i> -Toluoyl Chloride	T0311	147
Topiramate	T2755	13
D-(+)-Trehalose Anhydrous	T0832	86
D-(+)-Trehalose Dihydrate	T0331	86
2,3,4-Tri- <i>O</i> -acetyl- β -L-arabinopyranosyl 2,2,2-Trichloroacetimidate	T2695	11
<i>N,N',N''</i> -Triacetylchitotriose	T2912	94
Triacetyl- β -cyclodextrin	T1844	110
3,4,6-Tri- <i>O</i> -acetyl-2-deoxy-D-glucopyranose	T1931	40
3,4,6-Tri- <i>O</i> -acetyl-2-deoxy-2-phthalimido- β -D-glucopyranosyl 2,2,2-Trichloroacetimidate	T2615	47
1,2,3-Tri- <i>O</i> -acetyl-5-deoxy- β -D-ribofuranose	T2607	65
Tri- <i>O</i> -acetyl-D-galactal	T1734	23
Tri- <i>O</i> -acetyl-D-glucal	T1596	40
1,3,5-Tri- <i>O</i> -benzoyl- α -D-ribofuranose	T2641	65
3,4,6-Tri- <i>O</i> -benzyl-2-deoxy-D-galactopyranose	T1932	23
3,4,6-Tri- <i>O</i> -benzyl-2-deoxy-D-glucopyranose	T1933	40
Tri- <i>O</i> -benzyl-D-glucal	T1859	40
Trichloroacetonitrile	T0372	147
<i>N</i> -(2,2,2-Trichloroethoxycarbonyloxy)succinimide	T2713	147
2,2,2-Trichloroethyl Chloroformate	C0795	147
Trichloro(methyl)silane	M0450	148
Triethylamine	T0424	148
Triethylamine - Sulfur Trioxide Complex	T2136	145
Triethylsilane	T0662	148
Triflic Acid	T0751	148
Trifluoroacetic Acid	T0431	148
<i>N</i> -Trifluoroacetyl-D-glucosamine	T0973	47
Trifluoromethanesulfonic Acid	T0751	148
Trifluoromethanesulfonic Anhydride	T1100	148

Trihydroxyethylrutin	T3541	86
6- <i>O</i> -(Triisopropylsilyl)-D-galactal	T1935	23
6- <i>O</i> -(Triisopropylsilyl)-D-glucal	T1936	41
Trimethyl- β -cyclodextrin	T1094	110
Trimethylsilyldiazomethane (ca. 10% in Hexane, ca. 0.6mol/L)	T1146	148
Trimethylsilyl Triflate	T0871	149
Trimethylsilyl Trifluoromethanesulfonate [Trimethylsilylating Agent]	T0871	149
Triphenylphosphine	T0519	149
Triphosgene	T1467	149
Sodium Glycyrhizinate Hydrate	G0217	86
1,1,1-Tris[4-(per- <i>O</i> -methyl- α -cyclodextrin-6-yloxy)phenyl]ethane	T2450	110
Trityl Chloride	C0308	149
Troloxerutin	T3541	86
D-(+)-Turanose	T0542	87

V

<i>N</i> -Valeryl-D-glucosamine	V0011	47
Vilsmeier Reagent	C1545	131
Vitamin C	A0537	119
Vitamin C Sodium Salt	A0539	124
Vitamin L ₁	A0497	127
Vitamin P	H0049	80
Vitamin P (Water soluble)	M0338	82

X

Xanthan Gum	X0048	118
X-Gal	B3201	16
X-Glc	B5393	27
XLLG Glc ₄ Xyl ₃ Gal ₂	N0693	105
XXXG Glc ₄ Xyl ₃	H1041	103
XXXG Glc ₄ Xyl ₃	H1044	103
Xylan from Corn Core	X0078	118
Xylitol	X0018	72
Xylobiose	X0067	87
DL-Xylose	X0020	73
D-(+)-Xylose	X0019	73
L-(-)-Xylose	X0021	73
Xylosucrose	X0065	87

Z

Zanamivir Hydrate	Z0023	68
Z-Cl	B3021	128
Z-Cl (30-35% in Toluene)	C0176	128
Zinc (Powder)	Z0015	149
Zinc Bromide	Z0013	149
Zinc Chloride	Z0014	149
Zinc(II) Gluconate Hydrate	G0277	41
Z-OSu	C1124	130
Zymosan [Immunological Reagent]	Z0008	118

Appendix

付録

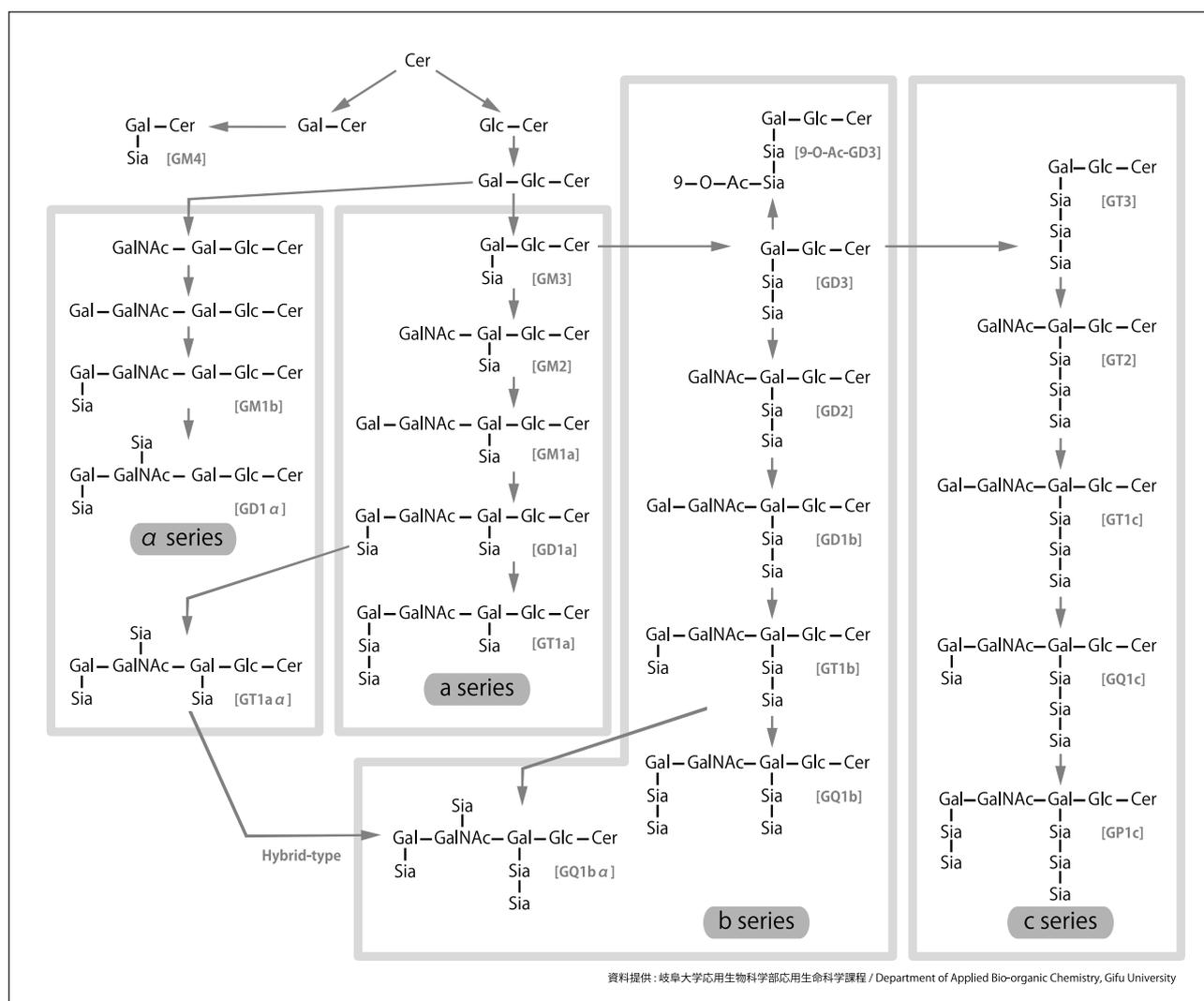
Basic Structures of Glycolipids / 糖脂質の基本構造	460
Basic Structures of Glycoproteins / 糖タンパク質の基本構造	461
Basic Structures of Proteoglycans / プロテオグリカンの基本構造	462
The Physical Properties of the Typical Organic Solvents · Freezing Mixtures / おもな有機溶剤の物性・冷却剤とその最低温度	463
Preparation of Reagents and Solutions / おもな試薬溶液の調製法	464
Pressure-Temperature Nomograph / 沸点換算図表	468

Basic Structures of Glycolipids

● Basic structures of glycosphingolipids

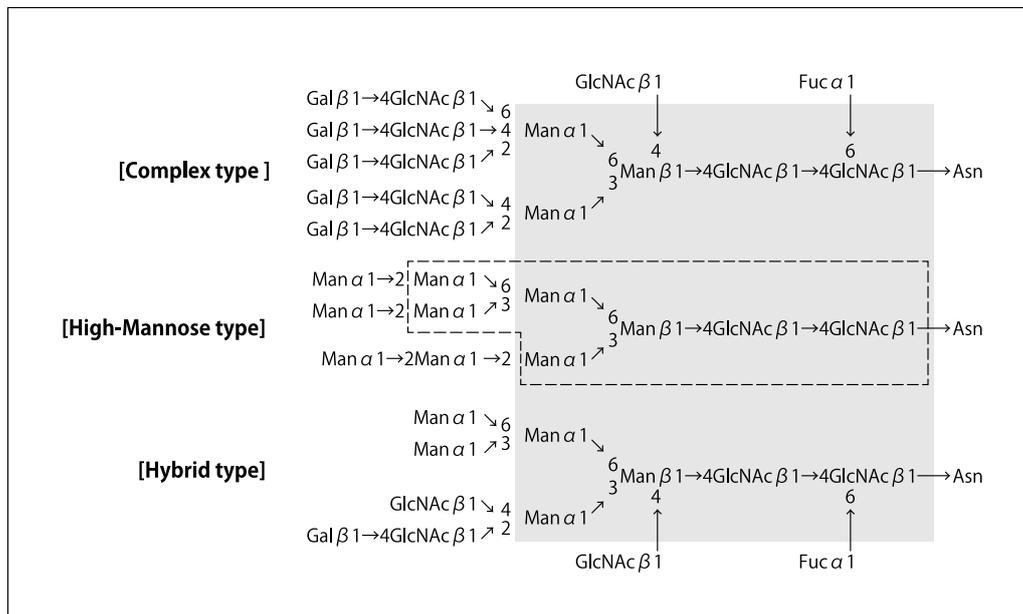
Series	Basic sugar	Basic structure
Gala-	Galabiose	Gal α 1-4Gal β 1→Cer
Hemato-	Lactose	Gal β 1→4Glc β 1→Cer
Ganglio-	Gangliotriose	GalNAc β 1→4Gal β 1→4Glc β 1→Cer
	Gangliotetraose	Gal β 1→3GalNAc β 1→4Gal β 1→4Glc β 1→Cer
Lacto-	Lactotetraose	Gal β 1→3GlcNAc β 1→3Gal β 1→4Glc β 1→Cer
Neolacto-	Neolactotetraose	Gal β 1→4GlcNAc β 1→3Gal β 1→4Glc β 1→Cer
Globo-	Globotriose	Gal α 1→4Gal β 1→4Glc β 1→Cer
	Globotetraose	GalNAc β 1→3Gal α 1→4Gal β 1→4Glc β 1→Cer
Isoglobo-	Isoglobotriose	Gal α 1→3Gal β 1→4Glc β 1→Cer

● Ganglio-series ganglioside biosynthetic pathways

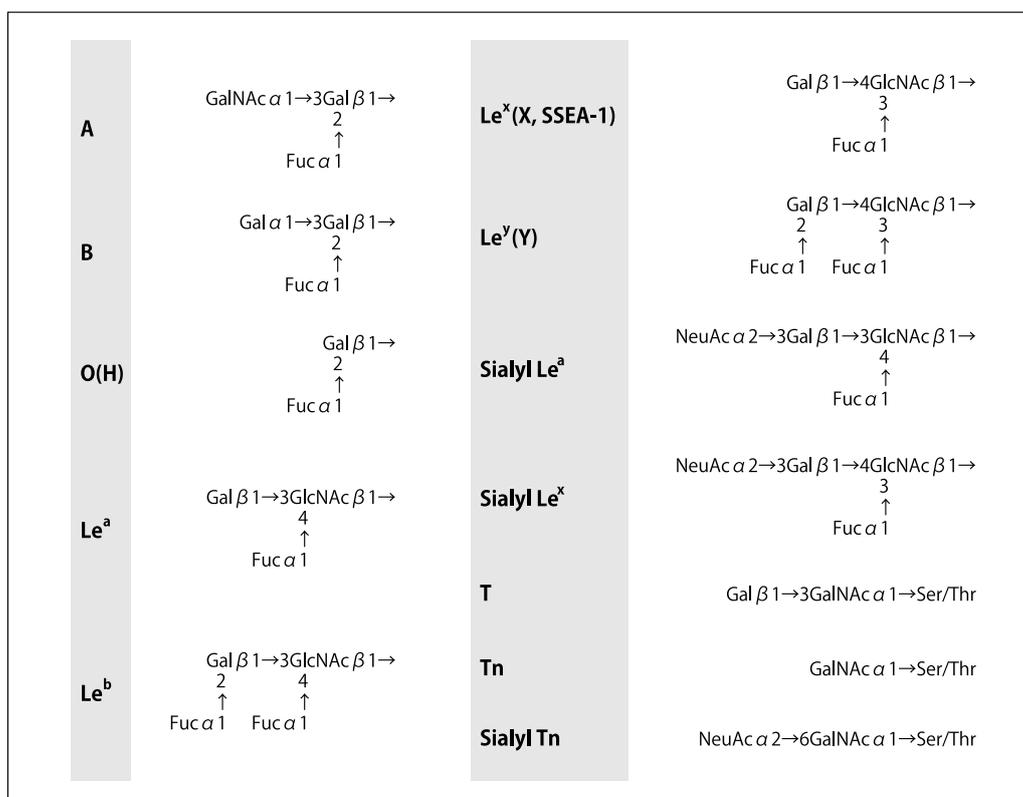


Basic Structures of Glycoproteins

● Asn-linked oligosaccharide subgroups

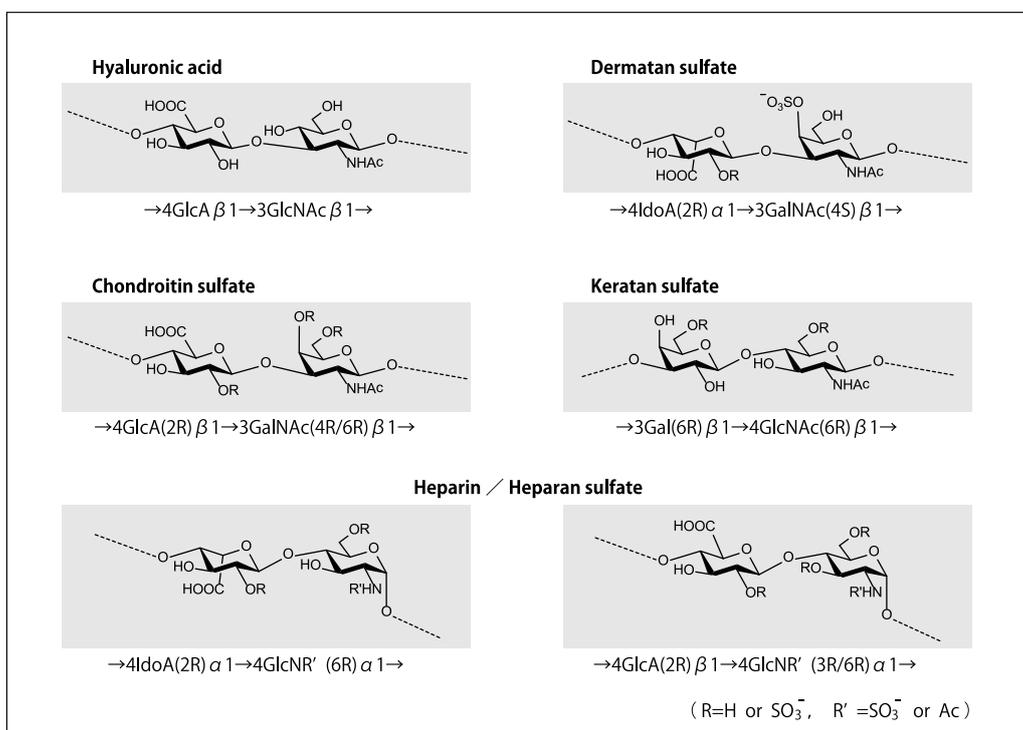


● Typical carbohydrate antigen

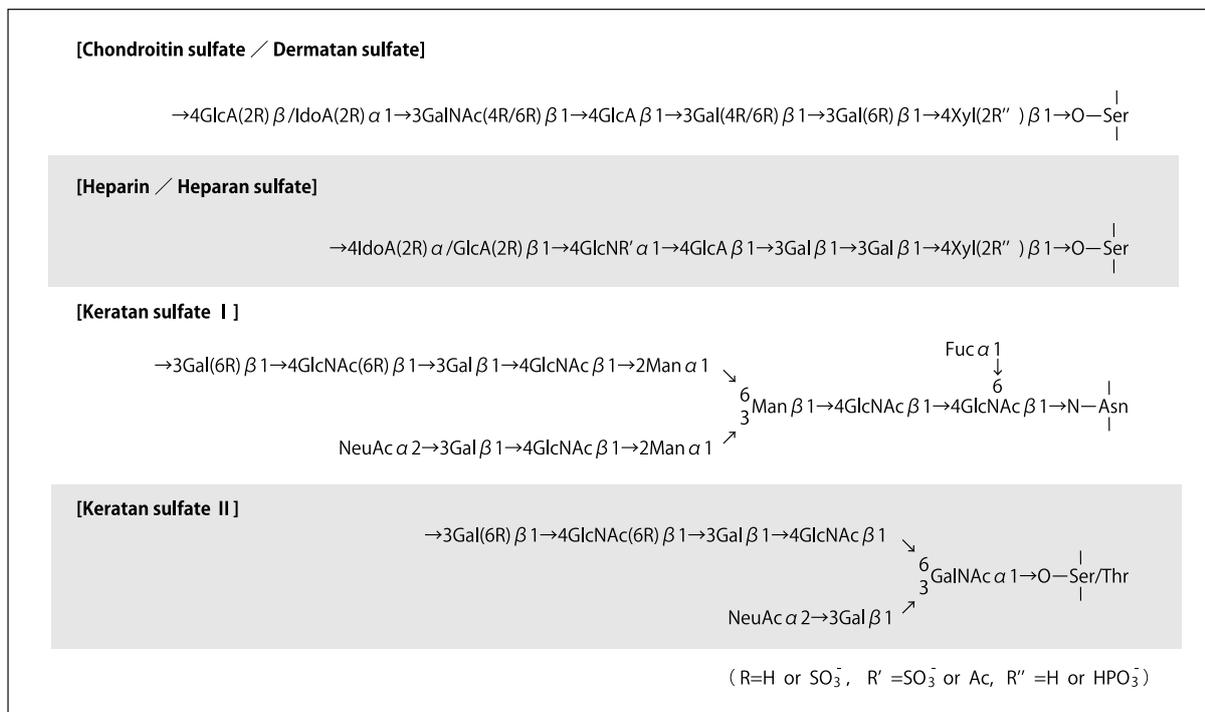


Basic Structures of Proteoglycans

- Repeating disaccharide units of various glycosaminoglycans
(There are many different sulfation patterns.)



- Glycosaminoglycan structures



The Physical Properties of the Typical Organic Solvents ¹⁾

Organic Solvents	bp (°C)	mp (°C)	d (20/4°C)	Compatibility with Water (°C) (weight % of solvents)	Miscibility with Water ^{b)}
Methanol (MeOH)	64.5	-97.7	0.791	— a)	○
Ethanol (EtOH)	78.3	-114.5	0.789	78.2(96.0)	○
Propanol (<i>n</i> -PrOH)	97.2	-126.2	0.804	87.7(71.7)	○
Isopropyl Alcohol (<i>i</i> -PrOH)	82.2	-88.0	0.785	80.1(88.0)	○
Butanol (BuOH)	117.7	-88.6	0.810	92.7(57.5)	△
Isobutyl Alcohol (<i>i</i> -BuOH)	107.9	-108	0.802	89.8(67)	△
<i>sec</i> -Butyl Alcohol (<i>s</i> -BuOH)	99.5	-114.7	0.807	87.0(73.2)	△
<i>tert</i> -Butyl Alcohol (<i>t</i> -BuOH)	82.3	25.6	0.781	79.7(88.2)	○
Ethylene Glycol	197.5	-12.6	1.114	— a)	○
1,2-Dimethoxyethane (Glyme)	84.5	-69	0.869	77.4(89.9)	○
Diethyl Ether (Et ₂ O)	34.4	-116	0.714	34.2(98.7)	× c)
Diisopropyl Ether (<i>i</i> -Pr ₂ O)	68.5	-85.5	0.724	62.2(95.5)	×
Acetic Acid (AcOH)	117.9	16.7	1.050	— a)	○
Ethyl Acetate (AcOEt)	77.1	-83.6	0.901	70.4(91.5)	× c)
Acetic Anhydride (Ac ₂ O)	140.0	-73.1	1.083		
Tetrahydrofuran (THF)	66.0	-108.4	0.889	63.4(93.3)	○
1,4-Dioxane	101.3	11.8	1.034	87.8(82)	○
Acetone	56.1	-94.7	0.790	— a)	○
Ethyl Methyl Ketone	79.6	-86.7	0.805	73.4(88.7)	△
Carbon Tetrachloride (CCl ₄)	76.6	-22.8	1.594	66(95.9)	×
Chloroform (CHCl ₃)	61.2	-63.5	1.489	56.1(97.8)	×
Dichloromethane (CH ₂ Cl ₂)	39.6	-94.9	1.326	38.1(98.5)	×
1,2-Dichloroethane (ClCH ₂ CH ₂ Cl)	83.5	-35.7	1.252	72(91.8)	×
Benzene (C ₆ H ₆)	80.1	5.5	0.879	69.3(91.2)	×
Toluene	110.6	-95.0	0.867	85(79.8)	×
<i>o</i> -Xylene	144.4	-25.2	0.880	93.5(50.1)	×
Cyclohexane	80.7	6.7	0.779	69.0(91)	×
Pentane	36.1	-129.7	0.626	34.6(98.6)	×
Hexane	68.7	-95.3	0.659	61.6(94.4)	×
Heptane	98.4	-90.6	0.684		×
Acetonitrile (CH ₃ CN)	81.6	-43.8	0.782	76.7(84.2)	○
Nitromethane (CH ₃ NO ₂)	101.2	-28.6	1.138	83.6(76.4)	×
Dimethylformamide (DMF)	153	-60.4	0.949	— a)	○
Hexamethylphosphoric Triamide (HMPA)	233	7.2	1.027		○
Triethylamine (Et ₃ N)	89.6	-114.7	0.728		○
Pyridine (Py)	115.3	-41.6	0.983	93.6(58.7)	○
Dimethyl Sulfoxide (DMSO)	189.0	18.5	1.100	— a)	△
Carbon Disulfide (CS ₂)	46.2	-111.6	1.263	42.6(97.2)	×

a) It doesn't form azeotropic mixture

b) ○ : freely miscible

△ : partially miscible

× : practically immiscible (solubility : less than 1%)

c) highly soluble in water

Example of combination of recrystallization solvents

The crystals are obtained from the solution of single or more than one solvent.

In the two solvent system, solvent A and B should be miscible : when solubility is A > B, it is desirable that the boiling point is A < B and the density is A > B.

Freezing Mixtures ²⁾

Freezing mixtures	Temp. (°C)	Freezing mixtures	Temp. (°C)
Ice	0	Chloroform / N ₂	-63
Ethylene Glycol / CO ₂	-15	Chloroform / CO ₂	-63
Ice(100) / NH ₄ Cl (25)	-15	Ethanol / CO ₂	-72
Ice(100) / NaCl(33)	-21	Ether / CO ₂	-77
Carbon Tetrachloride / N ₂	-23	Acetone / CO ₂	-78
Carbon Tetrachloride / CO ₂	-23	Methanol / N ₂	-98
Ice(100) / EtOH (100)	-30	<i>n</i> -Pentane / N ₂	-131
Acetonitrile / N ₂	-41	N ₂	-180
Ice(100) / CaCl ₂ (150)	-49		

References

- 1) "Yuki Kagaku Jikken no Tebiki 1", editors : T. Goto, T. Shiba, T. Matsuura, Kagaku Dojin
- 2) "Shinhan Kiso Yuki Kagaku Jikken", K. Hata, K. Watanabe, Maruzen

Preparation of Reagents and Solutions

■ Concentration of Liquid Acids and Bases: Common Commercial Strength

Substance	Formula	MW	Concentration (mol/L)	Concentration (%)	Specific Gravity
Hydrochloric Acid	HCl	36.46	12	35~37	1.18
Sulfuric Acid	H ₂ SO ₄	98.08	18	> 95	1.84
Nitric Acid	HNO ₃	63.01	15	60~62	1.38
Perchloric Acid	HClO ₄	100.46	9.4	60~62	1.54
Phosphoric Acid	H ₃ PO ₄	98.00	14.8	85	1.70
			15.7	89	1.73
Acetic Acid	CH ₃ COOH	60.05	17.4	99.5	1.05
Aqueous Ammonia	NH ₄ OH	35.05	15	28	0.90

Modified from JIS (Japanese Industrial Standard) K 0050 "General rules of chemical analysis"

■ The Amount of Ammonium Sulfate to be Added to Give the Desired Final Concentration at 25°C

		Final Concentration of Ammonium Sulfate (%)																
		10	20	25	30	33	35	40	45	50	55	60	65	70	75	80	90	100
		Ammonium Sulfate (solid) to be added (g) to 1L																
Initial Concentration of Ammonium Sulfate (%)	0	56	114	144	176	196	209	243	277	313	351	390	430	472	516	561	662	767
	10		57	86	118	137	150	183	216	251	288	326	365	406	449	494	592	694
	20			29	59	78	91	123	155	189	225	262	300	340	382	424	520	619
	25				30	49	61	93	125	158	193	230	267	307	348	390	485	583
	30					19	30	62	94	127	162	198	235	273	314	356	449	546
	33						12	43	74	107	142	177	214	252	292	333	426	522
	35							31	63	94	129	164	200	238	278	319	411	506
	40								31	63	97	132	168	205	245	285	375	469
	45									32	65	99	134	171	210	250	339	431
	50										33	66	101	137	176	214	302	392
	55											33	67	103	141	179	264	353
60												34	69	105	143	227	314	
65													34	70	107	190	275	
70														35	72	153	237	
75															36	115	198	
80																77	157	
90																	79	

S. Englard, S. Seiffter, *Methods Enzymol.* **1990**, 182, 285-300; W. I. Wood, *Anal. Biochem.* **1976**, 73, 250; R. K. Scopes, *Protein Purification: Principle and Practice*, 3rd ed., Springer-Verlag, New York, **1994**, p.346.

■ Buffer Solution

1. Phosphate Buffer

A. 0.2M NaH₂PO₄ • H₂O (Sodium Dihydrogenphosphate Monohydrate; FW 137.99) 27.6g/L H₂O

B. 0.2M Na₂HPO₄ • 7H₂O (Disodium Hydrogenphosphate Heptahydrate; FW 268.07) 53.6g/L H₂O

Mix solution A and B in the proportions indicated shown below, then adjust the final volume to 200mL with deionized water. Adjust the final pH using a sensitive pH meter.

pH (25°C)	5.8	6.0	6.2	6.4	6.6	6.8	7.0	7.2	7.4	7.6	7.8	8.0
NaH ₂ PO ₄ (mL)	92.0	87.7	81.5	73.5	62.5	51.0	39.0	28.0	19.0	13.0	8.5	5.3
Na ₂ HPO ₄ (mL)	8.0	12.3	18.5	26.5	37.5	49.0	61.0	72.0	81.0	87.0	91.5	94.7

G. Gomori, *Methods Enzymol.* **1955**, 1, 138.

2. Tris-HCl Buffer

A. 0.1M Tris (Tris(hydroxymethyl)aminomethane); MW 121.14) 12.1g/L H₂O

B. 0.1M HCl (Hydrochloric Acid); Dilute commercial concentrated hydrochloric acid to 1/120 with deionized water.

Mix 50mL of solution A and indicated volume of solution B and adjust the final volume to 100mL with deionized water. Adjust the final pH using a sensitive pH meter.

pH (25°C)	7.2	7.4	7.5	7.6	7.8	8.0	8.2	8.4	8.5	8.6	8.8
HCl (mL)	44.7	42.0	40.3	38.5	34.5	29.2	22.9	17.2	14.7	12.4	8.5

Temperature dependency of the pH of Tris buffer

4°C	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4
25°C	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8
37°C	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5

J. Sambrook, D. W. Russell, *Molecular Cloning: A Laboratory Manual*, 3rd. ed, Cold Spring Harbor Laboratory Press, New York, **2001**, Vol.3, p. A1.2.

3. Acetate Buffer

A. 0.1M AcOH (Acetic Acid), 5.8mL/L

B. 0.1M NaOAc (Sodium Acetate, anhydrous; FW 82.03) 8.2g /L H₂O

or (Sodium Acetate Trihydrate; FW 136.08) 13.6g/L H₂O

Mix solution A and B in the proportions indicated shown below, then adjust the final volume to 100mL with deionized water. Adjust the final pH using a sensitive pH meter.

pH (25°C)	3.6	4.0	4.4	4.8	5.0	5.2	5.6
AcOH (mL)	46.3	41.0	30.5	20.0	14.8	10.5	4.8
NaOAc (mL)	3.7	9.0	19.5	30.0	35.2	39.5	45.2

■ Visualizing Reagents for Thin-Layer Chromatography^{1,2)}

Reagent	Product Code / Recipe	Treatment	Spot Color	Target Compounds
Iodine	I0604 (place some crystals in a chamber)	Place the plate in the chamber.	Brown	General organic compounds
Sulfuric Acid	Dilute with water (50~98%)	Spray the solution and heat the plate at 110~130°C	Brown ~ Black	General organic compounds
Phosphomolybdic Acid	P1484; The prepared solution may be diluted with ethanol 2~4 fold.	Spray the solution and heat the plate at 110°C	Green to brown spot on yellow background	General organic compounds
<i>p</i> -Anisaldehyde	A1674	Spray the solution and heat the plate at 110°C	Depends on the compound: violet, gray, blue, green	General organic compounds
Ceric Ammonium Molybdate	C1794	Spray the solution and heat the plate at 110°C		General organic compounds
Ninhydrin	N0094 (Spray) N0719 (Solution)	Spray the solution and heat the plate at 110°C	Pink ~ yellow	Amino acids, primary, secondary amines
Dragendorff's Reagent	(Solution A) Dissolve 1.7g bismuth(III) nitrate, 20g tartaric acid in 80mL water; (Solution B) Dissolve 16g potassium iodide in 40mL water; (Stock Solution) Mix equal parts of A and B; (Spray Solution) Dissolve 10g tartaric acid in 50mL water and add 10mL to the stock solution.	Spray the solution.	Orange	Tertiary amines, quaternary ammonium salts (alkaloids)
<i>p</i> -Dimethylamino-benzaldehyde	Dissolve D0645 or D1495 1g in ethanol 50mL and conc. HCl 50mL.	Spray the solution and warm the plate	Yellow	Amines
2,4-Dinitrophenylhydrazine	D2968	Spray the solution.	Reddish orange	Aldehydes, Ketones
Bromocresol Green	B2401	Spray the solution.	Yellow spots on green to blue background	Carboxylic acids, Sulfonic Acids
Primuline	(Stock Solution) Dissolve 0.1g P0603 in 100mL water; (Spray Solution) Mix 1mL of the stock solution to the mixture of 100mL acetone-water (4:1 v/v) ³⁾	Spray the solution.	Pale blue to yellow under UV light	Lipids

1) *TCI Mail* **2006**, 124, 15.

2) H. Jork, W. Funk, W. Fischer, & H. Wimmer, in *Thin-Layer Chromatography: Reagents and Detection Methods*, ed. by H. Jork, Wiley, New York, **1989**, Vol. 1A; W. Funk, W. Fischer, H. Wimmer, H. Jork, in *Thin-Layer Chromatography: Reagents and Detection Methods*, ed. by H. Jork, Wiley, New York, **1994**, Vol. 1B.

3) T. White, S. Bursten, D. Federighi, R. A. Lewis, E. Nudelman, *Anal. Biochem.* **1998**, 258, 109.

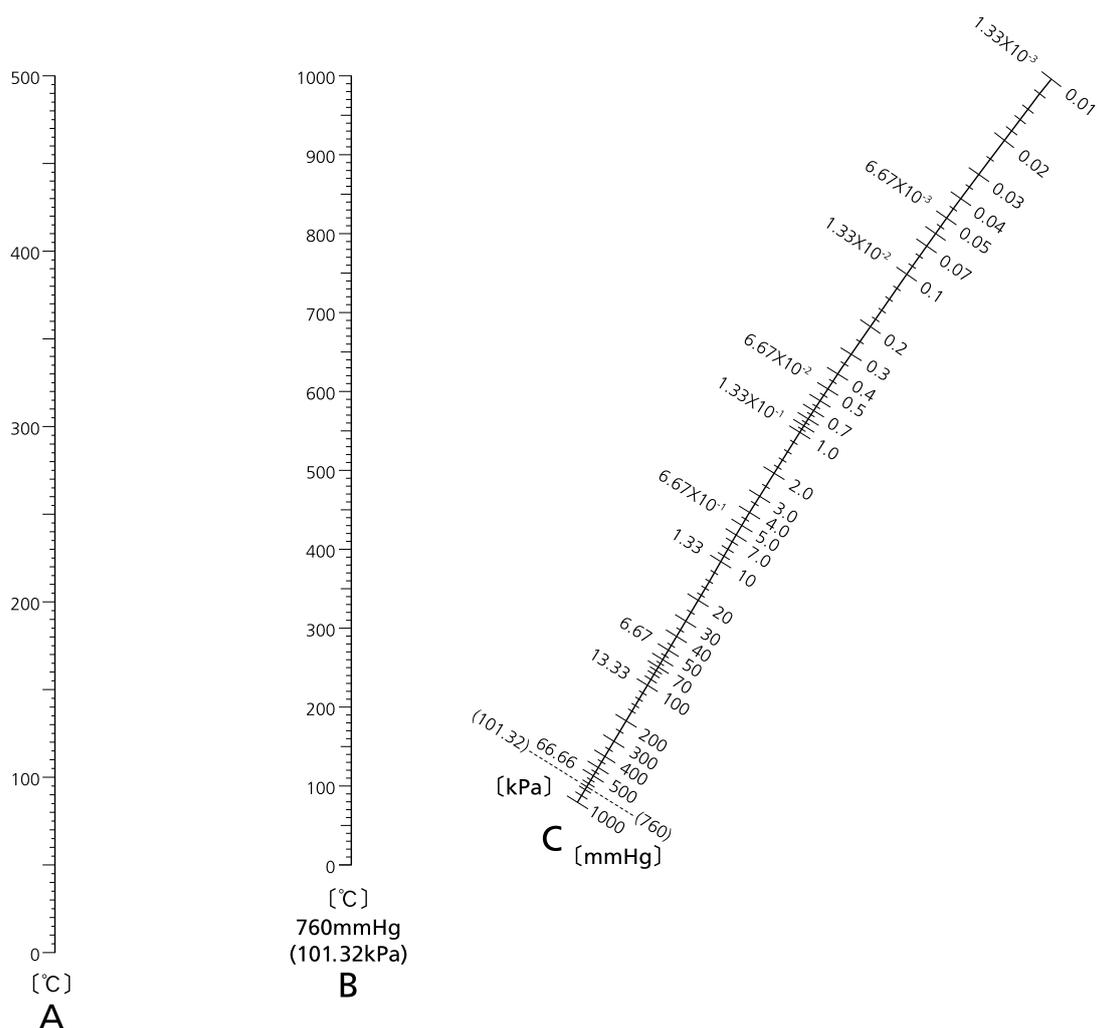
■ Solvent Strength in Chromatography

Solvent	Strength Parameter ϵ°	Solvent	Strength Parameter ϵ°
Hexane	0.01	Dioxane	0.56
Cyclohexane	0.04	Ethyl Acetate	0.58
Diisopropyl Ether	0.28	Acetonitrile	0.65
Toluene	0.29	Pyridine	0.71
Diethyl Ether	0.38	2-Propanol	0.82
Dichloromethane	0.40	Ethanol	0.88
Tetrahydrofuran	0.45	Methanol	0.95
Acetone	0.56	Acetic Acid	» 1

$\epsilon^\circ = \Delta G_s^\circ / 2.3/RTA_s$: where, ΔG_s° is an adsorption free energy of the solvent, R is the gas constant, T is thermodynamic temperature. A_s is an area of the solvent molecule around the absorbent. The values are obtained in absorption chromatography by using alumina.

L. R. Snyder, in *Principles of Adsorption Chromatography*, Marcel Dekker, 1968.

Pressure-Temperature Nomograph



● How to calculate the bp under atmospheric pressure from bp under reduced pressure

- ① Connect a degree on the line C and its corresponding bp on the line A under reduced pressure using a straight line.
- ② An intersection found by step ① on the line B serves as an approximate bp in atmospheric pressure.

*This nomograph applies to nonassociated solvent.

Since the bp obtained from this nomograph is an approximate value, it is not an exact bp.

Reference : Science of Petroleum, Vol.II, p.1281 (1938).

TCI Local Offices

NORTH, CENTRAL and SOUTH AMERICA

TCI AMERICA

9211 N. Harborside Street, Portland, OR 97203, U.S.A.
Tel : 800-423-8616 / 503-283-1681
Fax : 888-520-1075 / 503-283-1987
E-mail : sales-us@TCIchemicals.com

[East Coast Sales & Distribution Center]

121 Domorah Drive, Montgomeryville, PA 18936, U.S.A.
Tel : 800-423-8616
Fax : 888-520-1075

EUROPE

TCI EUROPE N.V.

Boerenveldseweg 6 - Haven 1063
2070 Zwijndrecht
Belgium
Tel : +32 (0)3 735 07 00
Fax : +32 (0)3 735 07 01
E-mail : sales-be@TCIchemicals.com

(French Branch Office)

42 Avenue Montaigne
75008 Paris
France
Tel : +33 (0)1 73 06 98 90
E-mail : sales-eu@TCIchemicals.com

TCI Deutschland GmbH

Mergenthalerallee 79-81
D-65760 Eschborn
Germany
Tel : +49 (0) 6196 640 53 00
Fax : +49 (0) 6196 640 53 01
E-mail : sales-de@TCIchemicals.com

Tokyo Chemical Industry UK Ltd.

The Magdalen Centre
Robert Robinson Avenue
The Oxford Science Park
Oxford OX4 4GA
U.K.
Tel : +44 1865 78 45 60
Fax : +44 1865 78 45 61
E-mail : sales-uk@TCIchemicals.com

ASIA PACIFIC REGIONS

TOKYO CHEMICAL INDUSTRY CO., LTD.

4-10-2 Nihonbashi-honcho, Chuo-ku, Tokyo 103-0023, Japan
Tel : +81-3-5640-8878
Fax : +81-3-5640-8902
E-mail : globalbusiness@TCIchemicals.com

CHINA

梯希爱(上海)化成工业发展有限公司

上海化学工业区普工路96号 邮编 201507
Tel : 800-988-0390 / 021-6712-1386
Fax : 021-6712-1385
E-mail : sales-cn@TCIchemicals.com

梯希爱(上海)化成工业发展有限公司北京分公司

北京市海淀区中关村南大街2号B座17层 2002D 邮编 100086

梯希爱(上海)化成工业发展有限公司浦东分公司

上海市浦东新区东三里桥路1018号B座202室 邮编 200125

INDIA

TCI Chemicals (India) Pvt. Ltd.

Plot No. B-28, Phase II, 5th Cross Street, MEPZ-SEZ, Tambaram,
Chennai, Tamilnadu-600045, India
Tel : +91-(0)44-2262 0909
Fax : +91-(0)44-2262 8902
Toll Free : 1800 425 7889
E-mail : sales-in@TCIchemicals.com

TCl Distributors

北海道地区・東北地区・関東地区

北海道

(株)エル・エム・エス札幌営業所	001-0011	札幌市北区北十一条西3-1-1	011-707-7360
北海道和光純薬(株)	001-0015	札幌市北区北十五条西4-1-16	011-747-2811
(株)道央理化産業	001-0022	札幌市北区北二十二条西9-1-15	011-747-2131
(株)和科盛商会	001-0910	札幌市北区新琴似十条1-7-16	011-756-1821
純正化学(株)北海道営業所	003-0835	札幌市白石区北郷五条5-4-21-104	011-874-0151
北海ケミー(株)本社営業部	004-0811	札幌市清田区美しが丘1条8丁目4-1	011-807-0143
(株)タナカ札幌本社	060-0906	札幌市東区北六条東2-2-11 札幌総合卸センター内	011-731-0291
(株)タナカ	061-3241	石狩市新港西1-727-1	0133-73-0662
北海ケミー(株)旭川営業所	070-0825	旭川市北門町22-2168-219	0166-54-3331
(株)タナカ北見営業所	090-0001	北見市小泉438-11	0157-31-5410

青森県

東北化学薬品(株)青森支店	030-0131	青森市問屋町1-8-12	017-738-4451
東北化学薬品(株)八戸支店	031-0071	八戸市沼館1-15-3	0178-43-9236
東北化学薬品(株)	036-8061	弘前市神田1-3-1	0172-32-4111
(株)成瀬理工八戸営業所	039-1114	八戸市北白山台2-12-12	0178-70-4141

岩手県

(株)成瀬理工	020-0066	盛岡市上田3-8-29	0196-23-1256
東北化学薬品(株)盛岡営業所	020-0122	盛岡市みたけ6-15-5	019-601-7533
(株)成瀬理工北上営業所	024-0004	北上市村崎野13-25-8	0197-71-1630
東北化学薬品(株)岩手支店	024-0014	北上市流通センター18-39	0197-68-2271
(株)成瀬理工釜石営業所	026-0043	釜石市新町8-20	0193-23-6684

宮城県

(株)エル・エム・エス仙台営業所	980-0821	仙台市青葉区春日町10-23 第一春山ビル1-A	022-221-3521
ナカライテスク(株)仙台営業所	981-0915	仙台市青葉区通町2-2-8 モンレーブ通町101	022-727-8070
東北化学薬品(株)仙台支店	981-3627	黒川郡大和町吉岡東3-7-14	022-345-4870
中山商事(株)仙台営業所	983-0013	仙台市宮城野区中野1-3-5	022-253-6511
仙台和光純薬(株)	984-0002	仙台市若林区卸町東2-2-32	022-239-2700
純正化学(株)東北支店	984-0015	仙台市若林区卸町1-2-3	022-232-6215
理科研(株)仙台営業所	984-0051	仙台市若林区新寺3-5-40	022-352-4851

秋田県

(株)中央科学	010-0061	秋田市卸町3-1-22	018-863-6111
(株)十字屋	010-0921	秋田市大町1-4-20	0188-62-2004
東北化学薬品(株)秋田支店	011-0901	秋田市寺内字三千刈462-1	018-824-1201
東北化学薬品(株)大館営業所	017-0041	大館市大田面113-1	0186-45-0566

山形県

山形科学薬品(株)	992-0011	米沢市中田町1218	0238-37-4155
東北化学薬品(株)米沢営業所	992-1125	米沢市万世町片子大下田4374-2	0238-24-7622
万成化学(株)	992-1125	米沢市万世町片子824	0238-23-3266
東北化学薬品(株)山形営業所	999-3765	東根市神町南2-3-14	0237-47-0068

福島県

(株)小関秀雄商店	960-8072	福島市北中央3-85-1	0245-35-1351
中山商事(株)白河営業所	961-8061	西白河郡西郷村小田倉字岩下104-3	0248-22-5001
中山商事(株)郡山営業所	963-1304	郡山市熱海町安子島南原13-1	0249-84-2401
中山商事(株)いわき営業所	971-8125	いわき市小名浜島入海63	0246-58-7020
中山商事(株)原町営業所	975-0042	南相馬市原町区雫字南大江下93	0244-22-2518

茨城県

キシダ化学(株)つくば営業所	300-0326	稲敷郡阿見町大字星の里13-2	029-833-6011
伊勢久(株)つくば営業所	300-1231	牛久市猪子町字原992-532	029-870-1111
(株)テーパーック	300-2307	つくばみらい市板橋3060-9	0297-58-3406
東海ケミー(株)筑波営業所	300-2406	つくばみらい市福岡2504-1	0297-52-4817

関東地区

岩井化学薬品(株)筑波支店	300-2635	つくば市東光台5-11-4	029-847-0321
中山商事(株)筑波営業所	300-2651	つくば市鬼ヶ窪1139-1	029-847-7383
(株)タナカつくば営業所	300-3261	つくば市花畑3-20-5	029-877-3930
純正化学(株)筑波営業所	304-0031	下妻市高道祖1417	0296-43-7711
片山化学工業(株)筑波営業所	305-0005	つくば市天久保2-11-21 小島ビル1階	029-851-0164
家田化学薬品(株)筑波支店	305-0821	つくば市春日4-3-5	029-852-6621
不二化学薬品(株)つくば営業所	305-0041	つくば市上広岡429-1	029-863-5380
茨城半井化学(株)	305-0074	つくば市高野台3-15-14	0298-39-0038
中山商事(株)下館営業所	308-0113	筑西市関館283-7	0296-37-7811
東海ケミール(株)	311-4165	水戸市木葉下町字富士山292-30	0292-54-6511
中山商事(株)水戸営業所	312-0063	ひたちなか市田彦字寄井新田1019-3	029-275-2591
伊勢久(株)鹿島営業所	314-0115	神栖市知字3678-4	0299-96-3009
中山商事(株)鹿島営業所	314-0121	神栖市溝口4580	0299-96-0250
東海ケミール(株)鹿島営業所	314-0252	神栖市柳川2615-16	0479-46-3315
中山商事(株)	317-0075	日立市相賀町17-9	0294-22-5291
東海ケミール(株)北部営業所	319-1418	日立市砂沢町1187-17	0294-44-7370

栃木県

アズサイエンス(株)北関東支店	321-0901	宇都宮市平出町385-15	0286-61-5616
中山商事(株)栃木営業所	322-0026	鹿沼市茂呂2620	0289-60-7871

群馬県

高信化学(株)	370-0072	高崎市大八木町801番地	027-361-3221
(有)共愛テクノサイエンス	370-0073	高崎市緑町1-11-11	027-363-8777
国産化学(株)群馬事業所	370-0718	邑楽郡明和町大輪2566	0276-70-3146
(有)共栄化学	376-0023	桐生市錦町2-12-7	0277-44-4420

埼玉県

(株)小松屋	330-0044	さいたま市浦和区瀬ヶ崎2-7-4	048-886-2451
川口薬品化学(株)	332-0015	川口市川口5-12-34	048-252-2149
埼玉化成(株)	335-0002	蕨市塚越1-18-7	048-420-4405
ナカライテスク(株)埼玉営業所	336-0022	さいたま市南区白幡1-17-12	048-866-5851
(有)トキワケミカル	336-0026	さいたま市南区辻8-13-19 フローレンス201号	048-838-6790
埼玉薬品(株)	337-0004	さいたま市見沼区卸町1-43	048-686-5221
純正化学(株)埼玉営業所	343-0844	越谷市大間野町1-6	048-988-6161
光洋サイエンス(株)	350-0052	川越市宮下町1-12-15	0492-22-6677
小島化学薬品(株)	350-1335	狭山市柏原337-26	0429-53-9231
鍋林(株)関東営業所	350-2218	鶴ヶ島市柳戸町11-7	0492-86-4970
家田化学薬品(株)埼玉支店	352-0011	新座市野火止4-19-4	0484-77-3905
みどり化学(株)埼玉営業所	356-0035	ふじみ野市丸山1-10	0492-61-3553
高信化学(株)埼玉支店	360-0023	熊谷市佐谷田1237-1	048-580-7747
小宗化学薬品(株)	361-0021	行田市富士見町1-19	0485-56-6261
昌栄化学(株)	362-0022	上尾市大字瓦葺字大島478-3	048-723-1651

千葉県

ナカライテスク(株)千葉連絡所	260-0028	千葉市中央区新町24-9	043-242-1810
理科研(株)千葉営業所	260-0842	千葉市中央区南町3-2-1 青木ビル1F	043-305-1751
(株)薬研社	260-0843	千葉市中央区末広3-12-6	043-265-4141
(株)薬研社柏営業所	277-0831	柏市根戸386-15	04-7137-2255
(株)高長柏営業所	277-0863	柏市豊四季167 マンション豊四季102	04-7141-0081
東海ケミール(株)東葛営業所	277-0873	柏市中十余二401-3	04-7140-9811
(株)メディセオ	279-0024	浦安市港76-1	047-305-1800
伊勢久(株)千葉営業所	290-0046	市原市岩崎西1-4-11	0436-22-2255
京葉ケミール(株)	290-0056	市原市五井9097番地	0436-22-9221
広島和光(株)千葉営業所	290-0056	市原市五井9130	0436-22-2671
純正化学(株)千葉営業所	299-0242	袖ヶ浦市久保田57-6	0438-62-1151

東京地区

東京都

利根化学(株)	101-0032	千代田区岩本町1-3-13	03-3862-6666
東北化学薬品(株)東京支店	101-0032	千代田区岩本町1-8-15	03-3866-9777
鈴木科学薬品(株)	101-0036	千代田区神田北乗物町18-1 SKYビル1F	03-3258-6961
大成化学(株)	101-0041	千代田区神田須田町2-3-16 千代田パリオンビル1F	03-3252-3336
伊勢久(株)東京営業所	101-0045	千代田区神田鍛冶町3-7	03-5295-0301
金剛薬品(株)東京支店	101-0054	千代田区神田錦町1-5	03-3518-0855
(株)イトー	103-0002	中央区日本橋馬喰町1-6-3 吉野第一ビル8F	03-3668-3222
キヨス薬品(株)	103-0007	中央区日本橋浜町3-34-8	03-3666-4351
ナカライテスク(株)東京営業所	103-0021	中央区日本橋本石町4-2-16 日本橋本石町トーセイビル	03-3242-5881
眞光化学(株)	103-0021	中央区日本橋本石町4-5-6	03-3279-2021
家田化学薬品(株)日本橋本店	103-0022	中央区日本橋室町4-3-4 オフィス家田室町	03-3270-0621
栄光科学(株)	103-0022	中央区日本橋室町4-6-7	03-3241-0885
関東化学(株)	103-0022	中央区日本橋室町2-2-1 室町東三井ビルディング	03-6214-1060
岩井化学薬品(株)	103-0023	中央区日本橋本町3-2-10	03-3241-4531
和光純薬工業(株)東京本店	103-0023	中央区日本橋本町2-4-1	03-3270-3499
昭和化学(株)	103-0023	中央区日本橋本町4-3-8	03-3270-2701
米山薬品工業(株)東京支店	103-0023	中央区日本橋本町4-2-12	03-3246-2311
中野化学(株)	103-0023	中央区日本橋本町4-13-10 日本橋中野ビル	03-3663-8581
久木田薬品工業(株)	103-0023	中央区日本橋本町4-2-10	03-3241-0351
中外薬品工業(株)	103-0023	中央区日本橋本町4-6-2	03-3241-7251
日化産商事(株)	103-0023	中央区日本橋本町4-15-1 タカコービル2F	03-3668-6641
山田化学薬品(株)	103-0023	中央区日本橋本町4-1-1 加島商館ビル5F	03-3241-1203
東新化成(株)	103-0023	中央区日本橋本町4-5-15	03-3279-1623
不二化学薬品(株)東京営業所	103-0023	中央区日本橋小伝馬町16-9	03-3667-7703
(株)山口薬品	112-0011	文京区千石4-10-1	03-3941-4398
(株)高長	113-0021	文京区本駒込5-1-4	03-3941-7161
(有)山本薬品商会	113-0033	文京区本郷1-8-18 岡戸ビル	03-3814-3821
(株)エル・エム・エス	113-0033	文京区本郷3-6-7 田中ビル	03-5842-4169
家田化学薬品(株)本郷支店	113-0033	文京区本郷3-14-16 オフィス家田2F	03-3813-4418
理科研(株)東京支社	113-0033	文京区本郷3-44-2	03-3815-8951
(株)カーク東京営業所	113-0033	文京区本郷4-37-17 本郷トーセイビル1F	03-3868-3951
(株)十條合成化学研究所	114-0023	北区滝野川3-84-2	03-3910-5471
日進化成(株)	120-0037	足立区千住河原町11-5	03-3882-8881
日理化学(株)	123-0873	足立区扇2-2-8	03-3898-7666
(株)宮川商店	130-0011	墨田区石原4-17-7	03-3621-4015
新陽化成(株)	130-0013	墨田区錦糸1-4-3 若山ビル	03-3623-2888
(株)ミカミ	131-0032	墨田区東向島5-4-12	03-3610-0331
キシダ化学(株)東京支店	135-0007	江東区新大橋2-11-8	03-5625-5593
アズサイエンス(株)東京営業所	135-0031	江東区佐賀1-18-8 佐賀町MDビル4F	03-5843-8155
広島和光(株)東京営業所	141-0001	品川区北品川5-8-26	03-5447-6181
西尾工業(株)	142-0062	品川区小山4-5-20	03-3785-4781
正晃(株)東京支店	130-0021	墨田区緑2丁目7番3号 ダイコービル2F	03-5638-5881
理科研(株)目黒支店	153-0042	目黒区青葉台3-12-6	03-3477-7251
東都化学工業(株)	170-0002	豊島区巢鴨3-39-4	03-3917-7161
宮田化学(株)	170-0012	豊島区上池袋2-8-14	03-3916-0505
(有)高橋藤吉商店	171-0044	豊島区千早1-17-8	03-3959-2618
東邦薬品(株)	173-0001	板橋区本町36-16	03-3962-8801
宮崎化学薬品(株)	174-0051	板橋区小豆沢3-1-30	03-3966-8721
国産化学(株)板橋営業所	174-0051	板橋区小豆沢4-25-11	03-3558-4601
東京試薬販売(株)	174-0075	板橋区桜川2-24-1	03-3931-6560
北辰化学(株)	176-0013	練馬区豊玉中3-10-7	03-3994-1473
(有)勝見化学	178-0062	練馬区大泉町1-48-14	03-3923-9498
片山化学工業(株)東京営業所	180-0004	武蔵野市吉祥寺本町1-31-11 KSビル706号室	0422-28-6011
(株)高長多摩営業所	186-0003	国立市富士見台3-22-7	0425-74-8371
理科研(株)多摩営業所	187-0022	小平市上水本町2-18-20	042-329-8651
(株)日栄東海	187-0031	小平市小川東町4-6-7	042-346-9713
尾崎理化(株)多摩営業所	192-0907	八王子市長沼町200-6	042-637-2200

関東地区・中部地区

神奈川県

(株)高長川崎営業所	210-0804	川崎市川崎区藤崎2-16-9	044-221-5155
尾崎理化(株)川崎営業所	210-0852	川崎市川崎区鋼管通1-3-3 コスモ川崎グレイスアベニュー1階	044-329-1414
国産化学(株)	220-0004	横浜市西区北幸2-8-29	0120-81-5930
三共化学薬品(株)横浜営業所	224-0032	横浜市都筑区茅ヶ崎中央42番21号 第2佐藤ビル204号	045-943-0921
尾崎理化(株)横浜営業所	226-0028	横浜市緑区いぶき野31-10	045-988-0531
理科研(株)神奈川支店	227-0045	横浜市青葉区若草台1-5	045-530-0151
理科研(株)鶴見営業所	230-0033	横浜市鶴見区朝日町1-49	045-500-4551
家田化学薬品(株)横浜支店	230-0051	横浜市鶴見区鶴見中央4-31-13	045-508-2558
ナカライテスク(株)横浜営業所	231-0011	横浜市中区太田町6-84-2 三井生命横浜桜木町ビル1F	045-227-5321
(株)カーク神奈川営業所	232-0018	横浜南区花之木町3-52 シルク花之木	045-326-6651
純正化学(株)横浜営業所	242-0029	大和市上草柳7-8-3	046-264-6971
伊勢久(株)神奈川営業所	243-0018	厚木市中町3-11-18 MY厚木ビル3階	046-297-3951
(株)東明サイエンス	243-0812	厚木市妻田北3-31-5	0462-22-3720
尾崎理化(株)	252-0153	相模原市緑区根小屋1888	0427-84-2525
湘南和光純薬(株)	254-0002	平塚市横内4090	0463-55-0914
三共化学薬品(株)	254-0016	平塚市東八幡3-16-3	0463-21-3721
理科研(株)鎌倉営業所	248-0036	鎌倉市手広6-1-1	0467-39-2151

山梨県

タカヤマケミカル(株)山梨営業所	409-3845	中央市山之神流通団地1-6-3	055-273-9600
(株)ラボテック	409-3853	中巨摩郡昭和町築地新居659-3	055-275-6531
アズサイエンス(株)甲府支店	409-3867	中巨摩郡昭和町清水新居601-1	0552-22-5131

長野県

米山薬品工業(株)上田営業所	386-0005	上田市古里字篠井原693-3	02682-2-5910
タカヤマケミカル(株)富士見営業所	391-0012	茅野市金沢字横道下5468-3	0266-79-4398
アズサイエンス(株)	399-8754	松本市村井町西2-3-35	0263-58-0021
タカヤマケミカル(株)	399-0033	松本市笹賀5652-106	0263-26-1500

新潟県

鍋林(株)上越支店	942-0033	上越市福橋字前田744-1	025-543-4521
金剛薬品(株)新潟支店	950-0867	新潟市東区竹尾卸新町752-1	0252-75-8141
アズサイエンス(株)新潟営業所	950-2054	新潟市西区寺尾東1-19-19	025-269-5161
中野化学(株)新潟支店	951-8116	新潟市中央区東中通り1番町203	025-223-6401

富山県

不二化学薬品(株)富山営業所	930-0032	富山市栄町2-7-9	076-421-0501
純正化学(株)富山営業所	930-0801	富山市中島1-11-28	076-433-3100
並木薬品(株)	930-0834	富山市問屋町3-1-33	0764-51-4545
金剛薬品(株)	930-0834	富山市問屋町1-8-7 富山問屋センター	0764-51-0161
平野純薬(株)富山支店	930-0892	富山市石坂1117番1	076-442-4890

石川県

平野純薬(株)金沢支店	920-0062	金沢市割出町15-3	076-239-0758
(株)片岡	920-1155	金沢市朝霧台2-27	076-263-2011
(株)エル・エム・エス金沢営業所	921-8808	野々市市長池201	076-294-5522

福井県

(株)上田五兵衛商店	918-8231	福井市問屋町1-4	0776-24-0004
平野純薬(株)	918-8112	福井市下馬2丁目1420番地	0776-37-4890
理科研(株)福井営業所	910-0842	福井市開発3-3010	0776-52-1651

岐阜県

理科研(株)岐阜営業所	500-8225	岐阜市岩地2-25-2	0582-40-0721
伊勢久(株)岐阜営業所	500-8355	岐阜市六条片田2-19-9	058-273-1625
(株)カーク岐阜営業所	500-8438	岐阜市島原町29番地	058-268-8151
(株)フナト理化	502-0812	岐阜市八代2-4-15	058-232-7125
伊勢久(株)多治見営業所	507-0827	多治見市平和町4-48-8	0572-22-0251

中部地区・近畿地区

静岡県

キシダ化学(株)沼津出張所	410-0059	沼津市若葉町11-31-107	055-926-6711
(株)エル・エム・エス沼津営業所	410-0065	沼津市花園町7-1	055-920-2455
国産化学(株)沼津営業所	410-0894	沼津市仲町26	055-963-9911
伊勢久(株)三島営業所	411-0822	三島市松本104-35	0559-77-6637
三立ケミ―(株)	411-0941	駿東郡長泉町上土狩697-1	0559-87-5150
中北薬品(株)三島支店	411-0943	駿東郡長泉町下土狩202-8	0559-88-1515
理科研(株)静岡営業所	422-8005	静岡市駿河区池田379番地	054-208-5351
三立ケミ―(株)静岡営業所	422-8006	静岡市駿河区曲金6-1-1	054-203-7530
中北薬品(株)焼津センター	425-0092	焼津市越後島347	054-629-2837
中北薬品(株)浜松支店	430-0802	浜松市東区将監町23-1	053-463-1311
(株)カーク浜松営業所	431-3125	浜松市東区半田山6-2-31	053-431-6801
伊勢久(株)掛川営業所	436-0048	掛川市細田144-1	0537-23-8484
ハヤシ化成(株)袋井営業所	437-0021	袋井市広岡1691	0538-43-3226
三立ケミ―(株)浜松営業所	438-0817	磐田市上万能183-1	0538-37-3328

愛知県

伊勢久(株)豊橋営業所	442-0012	豊川市新豊町2-111	0533-84-3261
理科研(株)岡崎営業所	444-0864	岡崎市明大寺町字西長峰50番	0564-57-1751
(株)カーク愛知東営業所	444-2134	岡崎市大樹寺1-11-11	0564-66-1580
米山薬品工業(株)名古屋営業所	452-0821	名古屋市西区上小田井2-99	052-504-2221
ハヤシ化成(株)名古屋営業所	456-0031	名古屋市熱田区神宮2-11-25	052-682-3883
(株)カーク愛知南営業所	458-0915	名古屋市緑区野末町1204	052-624-5819
伊勢久(株)	460-8558	名古屋市中区丸の内3-4-15	052-961-8321
(株)カーク	460-0002	名古屋市中区丸の内3-8-5	052-971-6551
中北薬品(株)	460-0002	名古屋市中区丸の内3-5-15	052-911-3681
(株)多次商店名古屋営業所	460-0003	名古屋市中区錦3-13-5 中央マンションA棟504	052-951-1232
理科研(株)	460-0007	名古屋市中区新栄1-33-1	052-241-5351
伊勢久(株)名古屋東営業所	464-0801	名古屋市中区千種区星ヶ丘2-55	052-783-3011
ハヤシ化成(株)豊田営業所	473-0922	豊田市高岡本町南24	0565-51-5050
伊勢久(株)名古屋南営業所	474-0001	大府市北崎町井田1-1	0562-47-1475

三重県

伊勢久(株)四日市営業所	510-0013	四日市市富士町8-3	0593-31-5284
(株)カーク四日市営業所	510-0017	四日市市羽津町16-18	059-337-9700
後藤化学(株)	510-0068	四日市市三栄町2-15	0593-51-1330
(株)中部化成	510-0864	四日市市中里町25-2	0593-46-4647
ハヤシ化成(株)四日市営業所	510-0871	四日市市川尻町719	0593-45-5507
伊勢久(株)津営業所	514-0131	津市あのとつ台4-7-6	059-236-1211
(株)長谷部薬局	514-0028	津市東丸の内18-16	059-227-0147
理科研(株)三重支店	514-0103	津市栗真中山町43-1	059-236-5511
(株)カーク三重営業所	514-0131	津市あのとつ台4-6-8	059-236-2531

滋賀県

京都和光純薬(株)滋賀営業所	524-0035	守山市阿村町流212-4	077-514-2451
ナカライテスク(株)滋賀営業所	524-0033	守山市浮気町346	077-581-3610
和研薬(株)滋賀営業部	525-0029	草津市下笠町945-1	077-568-2503
佐々木化学薬品(株)滋賀支店	529-1663	蒲生郡日野町北脇日野第二工業団地5-4	0748-53-2411

奈良県

ナカライテスク(株)京阪奈営業所	630-8124	奈良市三条松町5-16	0742-35-2001
京都和光純薬(株)奈良営業所	634-0803	橿原市上品寺町370-55	0744-23-1311

京都府

京都和光純薬(株)	601-8343	京都市南区吉祥院稲葉町31-1	075-661-3591
中村宗商店	604-0854	京都市中京区二条通烏丸東入仁王門町21	075-231-2248
ナカライテスク(株)	604-0855	京都市中京区二条通烏丸西入東玉屋町498	075-251-1723
和研薬(株)本社営業部	606-8171	京都市左京区一乗寺西水干町17	075-711-7117
(株)エル・エム・エス京都営業所	607-8184	京都市山科区大宅甲ノ辻町37	075-583-3700

近畿地区・中国地区

佐々木化学薬品(株) 607-8225 京都市山科区勤修寺西北出町10 075-593-4711
 和研薬(株)京阪奈営業部 610-0343 京田辺市大住池ノ端66-5 0774-65-2521

大阪府

(株)アズバイオ 530-0043 大阪市北区天満3-5-8 06-6351-5351
 (株)エル・エム・エス大阪営業所 530-0044 大阪市北区東天満2-2-17 東天満パークビル 06-6354-8755
 不二化学薬品(株) 530-0044 大阪市北区東天満2-6-11 06-6358-0981
 キシダ化学(株) 540-0029 大阪市中央区本町橋3-1 06-6946-8062
 純正化学(株)大阪営業所 540-0029 大阪市中央区本町橋6-6 RES本町橋1階 06-6940-3091
 林純薬工業(株) 540-0037 大阪市中央区内平野町3-2-12 06-6910-7338
 和光純薬工業(株) 540-8605 大阪市中央区道修町3-1-2 06-6203-3748
 米山薬品工業(株)大阪営業課 541-0045 大阪市中央区道修町2-3-11 06-6231-3555
 片山化学工業(株) 541-0045 大阪市中央区道修町2-5-10 06-6201-3391
 三栄化工(株) 541-0045 大阪市中央区道修町1-3-6 06-6231-1964
 重松貿易(株) 541-0047 大阪市中央区淡路町2-2-5 06-6231-6146
 関東化学(株)大阪支店 541-0048 大阪市中央区瓦町2-5-1 06-6231-1672
 (株)関薬 550-0003 大阪市西区京町堀1-12-30 06-6445-0215
 双葉化学薬品(株) 550-0025 大阪市西区九条南4-13-18 06-6583-2834
 太洋(株) 554-0024 大阪市此花区島屋4-3-24 06-6465-0573
 (株)ダイトー 555-0025 大阪市西淀川区姫里2-2-22 06-4808-8038
 和研薬(株)大阪営業部 562-0035 箕面市船場東1-12-8 072-749-5200
 片山化学工業(株)池田営業所 563-0024 池田市鉢塚1-9-14 072-763-1920
 (株)カーク大阪営業所 564-0051 吹田市豊津町16-12 グラン・シャリオ江坂 06-6389-2411
 ナカライテスク(株)大阪営業所 564-0072 吹田市出口町4-1 06-4861-7500
 八洲薬品(株) 567-0085 茨木市彩都あさぎ7-7-18 彩都バイオヒルズセンター内 072-640-1265
 不二化学薬品(株)高槻営業所 569-0063 高槻市南庄所町1-5 072-671-1080
 八洲薬品(株)京阪奈営業所 574-0057 大東市新田西町3-10 072-870-2711
 佐々木化学薬品(株)東大阪営業所 581-0056 八尾市南太子堂4-3-11 0729-94-0061
 八洲薬品(株)堺営業所 592-8333 堺市西区浜寺石津町西1-4-20 072-244-1368

兵庫県

広瀬化学薬品(株) 650-0046 神戸市中央区港島中町2-2-2 078-303-3807
 八洲薬品(株)神戸営業所 650-0047 神戸市中央区港島南町1-5-2 神戸キメックセンタービル8F 078-306-1739
 和研薬(株)神戸営業部 650-0047 神戸市中央区港島南町5-2-5 078-306-6060
 (株)多次商店 653-0015 神戸市長田区菅原通2-4 078-575-7985
 ナカライテスク(株)神戸営業所 657-0843 神戸市灘区大石北町7-3 078-861-0145
 不二化学薬品(株)尼崎営業所 661-0964 尼崎市神崎町21-29 06-6499-3191
 (株)シマヤ 672-8075 姫路市飾磨区思案橋60番地 0792-34-1001
 広瀬化学薬品(株)兵庫西支店 674-0074 明石市魚住町清水字井桶田 078-942-2511
 播磨薬品(株) 675-0025 加古川市尾上町養田1575 0794-24-2536

和歌山県

竹内化学(株) 640-8131 和歌山市弁財天丁63 073-424-2321
 八洲薬品(株)和歌山営業所 640-8303 和歌山市鳴神746-3 073-473-5951
 (株)ダイトー和歌山営業所 640-8324 和歌山市吹屋町3-36-1 073-433-8648

鳥取県

鳥取サイエンス(株) 680-0841 鳥取市吉方温泉3-110 0857-23-5651
 (有)友田大洋堂鳥取営業所 680-0874 鳥取市叶316-9 0857-51-1810
 (株)林薬品 683-0003 米子市皆生3-11-3 0859-33-3061

島根県

(株)宮田薬品 690-0017 松江市西津田1-5-29 0852-21-0279
 (有)友田大洋堂 690-0047 松江市嫁島町13-34 0852-24-3456

岡山県

広島和光(株)岡山営業所 700-0971 岡山市北区野田5-11-31 086-241-0771
 岡山薬品工業(株) 701-2155 岡山市北区中原551 086-275-0666
 片山化学工業(株)岡山営業所 703-8236 岡山市中区国富1-11-3 086-271-6511

中国地区・四国地区・九州地区

広島県

広島和光(株)福山営業所	721-0926	福山市大門町4-16-43	084-943-2720
山本薬品(株)	730-0805	広島市中区十日市町1-4-29	082-291-8931
米山薬品工業(株)広島営業所	733-0007	広島市西区大宮3-7-4	082-537-0290
広島和光(株)広島営業所	735-0024	安芸郡府中町緑ヶ丘6-40	082-285-6225
広島和光(株)東広島営業所	739-0046	東広島市鏡山3-12-26 ハナヤマビル101号	0824-31-3511
中国ケミー(株)	739-0263	東広島市志和流通1番85	0824-33-5152

山口県

広島和光(株)岩国営業所	740-0024	岩国市旭町2-12-29	0827-22-0683
キシダ化学(株)山口営業所	745-0062	周南市月丘町3-11	0834-22-3177
田中藍(株)徳山営業所	745-0074	周南市今宿町4-17	0834-31-6331
広島和光(株)徳山営業所	745-0801	周南市久米字沖角田3039-1	0834-25-1230
広島和光(株)防府営業所	747-0825	防府市新田66-2	0835-24-5432
中国ケミー(株)小郡営業所	754-0001	山口市小郡上郷2296-54	083-973-0913
正晃(株)山口営業所	754-0015	山口市小郡大江町7-12	083-972-0215
広島和光(株)宇部営業所	755-0008	宇部市明神町3-3-26	0836-34-3331
片山化学工業(株)山口営業所	755-0028	宇部市東本町1-2-30	0836-21-9196

徳島県

四国八洲薬品(株)	770-0873	徳島市東沖洲2-17	088-664-6321
アルフレッサ篠原化学(株)徳島支店	771-0132	徳島市川内町平石夷野224-29	088-678-2201
(株)阿波化成	771-0138	徳島市川内町平石流通団地76番	088-665-6565
片山化学工業(株)徳島営業所	771-1151	徳島市応神町古川字戎子野137-11	088-666-3711
四国理科(株)徳島営業所	771-1201	板野郡藍住町奥野字山畑39-3	088-693-4660

愛媛県

四国八洲薬品(株)松山営業所	791-1102	松山市来住町1445-1	089-960-0260
四国理科(株)愛媛営業所	790-0924	松山市南久米町798-7	089-907-3130
荒木薬品(株)	792-0011	新居浜市西原町2-7-7	0897-33-3853
アルフレッサ篠原化学(株)愛媛支店	799-3105	伊予市下三谷1-6	089-994-8825

高知県

四国八洲薬品(株)高知営業所	780-0082	高知市南川添21-13	088-884-8881
アルフレッサ篠原化学(株)	780-0084	高知市南御座9-41	088-882-5000
日進商事(株)	780-0901	高知市上町5-6-15	088-822-3141
四国理科(株)本社	781-5103	高知市大津乙1067-6	088-866-5000

香川県

増田薬品(株)	760-0020	高松市錦町1-13-21	087-851-0631
四国八洲薬品(株)高松営業所	761-0301	高松市林町148-19	087-815-1111

福岡県

桜木理化学機械(株)北九州営業所	804-0053	北九州市戸畑区牧山5-1-2	093-883-6616
正晃(株)北九州営業所	805-0071	北九州市八幡東区東田1-6-5	093-671-8006
(株)エル・エム・エス福岡営業所	811-2305	糟屋郡粕屋町大字柚須76-1	092-626-2505
ナカライテスク(株)福岡営業所	812-0013	福岡市博多区博多駅東3-12-1	092-474-2341
桜木理化学機械(株)福岡営業所	812-0044	福岡市博多区千代4-4-23	092-651-9561
キシダ化学(株)福岡営業所	813-0034	福岡市東区多ノ津4-1-28	092-622-0422
正晃(株)	813-0062	福岡市東区松島3-34-33	092-621-8199
サンケイ化学薬品(株)	815-0082	福岡市南区大楠2-6-24	092-531-2735
正晃(株)久留米営業所	839-0815	久留米市山川沓形町3-30	0942-45-1331

九州地区・沖縄地区

佐賀県

正 晃 (株) 佐 賀 営 業 所 840-0857 佐賀市鍋島町八戸1843 0952-22-7841
林 純 薬 工 業 (株) 九 州 営 業 所 849-0305 小城市牛津町上砥川1641-17 095-251-5777

長崎県

三 和 化 工 薬 品 (株) 850-0875 長崎市栄町4-13 095-821-2563
正 晃 (株) 長 崎 営 業 所 859-0401 諫早市多良見町化屋1781-1 0957-49-2780

熊本県

堤 化 学 (株) 860-0083 熊本市北区大窪2-8-6 096-356-8711
正 晃 (株) 熊 本 営 業 所 861-8038 熊本市東区長嶺東7-11-46 096-380-0055
(株) ケ ミ カ ル 同 仁 862-0967 熊本市南区流通団地1-44-2 096-377-2277

大分県

(有) 春 日 薬 局 870-0005 大分市王子北町1-5 097-536-1177
正 晃 (株) 大 分 営 業 所 870-0921 大分市萩原4-7-5 0975-58-0025

宮崎県

正 晃 (株) 宮 崎 営 業 所 880-0801 宮崎市老松2-3-25 0985-27-1331
宝 来 メ デ ッ ク (株) 宮 崎 支 店 880-0916 宮崎市恒久草葉974-6 0985-53-3611
旭化成アドバンス(株)南九州営業所 882-0873 延岡市共栄町71-9 0982-33-2933

鹿児島県

正 晃 (株) 鹿 児 島 営 業 所 891-0115 鹿児島市東開町3-23 099-260-7133
宝 来 メ デ ッ ク (株) 891-0123 鹿児島市卸本町5-29 099-260-2445

沖縄県

正 晃 (株) 沖 縄 営 業 所 901-1117 島尻郡南風原町津嘉山1582 098-888-3666
(株) エ ル ・ エ ム ・ エ ス 沖 縄 営 業 所 901-2206 宜野湾市愛知3-7-55 098-893-8226

General Information

■ Methods of Shipment

Unless specified otherwise, shipments are made at our discretion, and generally made by air parcel post where permitted by regulations. When special packaging or shipping is requested or required by regulations, the charges for these services will be added to the invoice.

■ Bulk Orders and Custom Synthesis

Prices for bulk quantities and custom synthesis are available on request. Please contact us for information on the availability of bulk chemicals and new chemicals not listed here. (Please refer to the back cover or page 000 for a list of our local TCI offices and contact information.)

■ Return Shipment

Return shipment cannot be accepted without prior authorization and unless made in compliance with proper shipment procedures. All claims for damage or shortage must be filed within 10 days of receipt.

■ Product Liability

All products described in this catalog are for research purpose only. They are in no way to be used for food, drug, household or any other application.

The hazards, physiological and toxicological properties of most chemicals have not yet been fully investigated and/or determined. Therefore, all chemicals should be handled with the utmost caution when used, stored or during disposal.

All of our chemicals should be handled only by individuals familiar with their potential hazards and who have been fully trained in proper safety, laboratory and chemical handling procedures.

Tokyo Chemical Industry Co., Ltd. (TCI) is not liable for damage to any person, persons or property resulting from incorrect handling, storage, usage or disposal of our products. TCI is not responsible for conditions and actions which are beyond our control. All products are supplied solely on the condition the customer alone accepts responsibility for damages resulting from any such incident or incidents.

■ Chemical Hazards

Many products in this catalog have been made on the research basis only. Their chemical, physiological and toxicological properties and hazards may not have been fully investigated or determined.

When known, Merck Index, Chemical Abstract and RTECS Numbers are provided for each chemical. TCI does not accept any responsibility for this information's correctness, completeness, or that it may fully provide all hazardous properties of each chemical. Chemicals may be extremely toxic or otherwise hazardous. The absence of warning for these conditions cannot and should not be interpreted as an indication of safety.

All products should be handled only by individuals familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures.

For additional assistance, please refer to the back cover for a list of our local TCI offices and contact information.

試薬のご購入、ご使用時の注意

■ 取扱い

試薬・化学薬品を使用する方は、化学的知識のある専門家に限られます。それ以外の方のご使用はお避けください。

製品ラベル上に「毒物及び劇物取締法」、「消防法」、「労働安全衛生法」に基づく表示や、その他の危険性・有害性に関する事項を可能な限り表示しました。これらの表示に十分注意してご使用ください。

試薬・化学薬品には危険性・有害性の知見が十分に得られていないものが数多くあります。したがって、危険性・有害性に関する表示がない場合、その試薬・化学薬品に危険性・有害性がないという事を意味するものではありません。また、たとえ表示がある場合であっても、その試薬・化学薬品の全ての危険性・有害性を示しているとは限りません。ご使用の際には安全面に十分注意し、開封、保管から廃棄に至るまで責任ある管理をお願いいたします。

■ 用途の範囲

本カタログに収録した化学薬品は、試薬であり、試験・研究のみに使用するものです。不適当な使用が予測される場合、注文をお断りすることが法により義務づけられています。

弊社試薬には、「化学物質の審査及び製造等の規制に関する法律」および「労働安全衛生法（化学物質の有害性調査制度）」により既存化学物質として登録されていない新規化学物質が数多くあります。新規化学物質を試験・研究以外の用途に利用される場合には、使用される数量の多少にかかわらず新規化学物質としての届出の義務が生じます。その必要がある場合には、速やかに弊社営業部または化成部品へご連絡ください。試験・研究の目的で利用される場合には必要ありません。

本カタログに収録した試薬・化学薬品は、医薬品、医薬部外品、化粧品、農薬、殺虫剤、食品添加物、家庭用化学薬品など、試験・研究以外の用途に使用することはできません。誤った使用による事故、保障については、当社は一切の責任を負いません。

弊社は、出荷された製品の使用、販売に関して、その製品自身や他製品との併用からあるいは何らかの工程操作において、日本国内や外国の特許に抵触しないことを保証いたしません。

■ カタログ記載内容の変更

本カタログに掲載されている製品は、カタログ発行時のものです。原料事情や品質改善などのさまざまな理由により、やむを得ず品目の削除や品質内容、製品等級の変更などを予告なしに行う場合があります。あらかじめご了承ください。製造ロットにより、製品ラベルの表示内容などがカタログ表示と異なる場合があります。

最新情報は、ホームページをご覧ください。
(<http://www.TCIchemicals.com/>)

■ ご注文

ご注文方法、お問い合わせにつきましては表紙裏をご覧ください。

本カタログに掲載した試薬は、常時在庫してプロンプトデリバリーをモットーといたしておりますが、やむを得ない事情により品切れの場合はしばらくの猶予をお願いいたします。

試薬・化学薬品は、特殊な性質を有しているものが数多くあり、品質管理上ご返品はご容赦願います。

■ SDS

化学物質のより安全な取扱いの推進を目的とし、安全データシート：Safety Data Sheet (SDS) の作成と提供に努めています。弊社ホームページにて公開しておりますのでご利用ください。



Reagents for
Glyco Chemistry
& Biology
5th Edition

Not for Sale

Fifth Edition : June 2017

Publisher TOKYO CHEMICAL INDUSTRY CO., LTD.

東京化成工業株式会社

東京化成販売株式会社

4-10-2, Nihonbashi-Honcho, Chuo-Ku, Tokyo 103-0023, Japan

〒 103-0023 東京都中央区日本橋本町 4-10-2

Editor TOKYO CHEMICAL INDUSTRY CO., LTD.

Technical Information Management Department

東京化成工業株式会社 学術部

TCl's Sugar Syntheses

We have achieved the mass production and supply of functional carbohydrate chains as well as monosaccharide blocks or oligo-saccharide units by chemical synthesis. Therefore, we can meet your needs of various situations in the sugar chain research.

For synthetic studies

We can synthesize large quantities of useful raw materials in the syntheses of the functional sugar chains, and can supply these materials at 10-100 kg scales.

For functional studies

We succeeded in the syntheses of cancer antigens, virus-related sugar chains and the marker sugar chains of the many functions stem cells such as the iPS cell. We start supplying these sugar chains at the 10g scale. Furthermore, we develop the mass production process of these sugar chains.

Functional sugar probes

We supply the sugar chain probes aimed for practical applications such as medicines / diagnostic agents / the removal of the illness inducement materials. Please make use these functional sugar probes in biochemistry and a biological field.

Sugar-conjugates

Sugar-conjugates are applicable to DDS, analysis of interactions between proteins and oligo-saccharides, affinity chromatography, and removal of viruses or toxins.

We can supply oligosaccharides for

Confidentiality

Irrespective of whether we have a formal confidentiality agreement in place with your company, TCl will handle your inquiry and other information with the utmost discretion. If a formal agreement is preferred, we can prepare one upon request.

Contact Information

TOKYO CHEMICAL INDUSTRY CO., LTD.

TCl Global Business Department

Tel: +81-3-5640-8878 Fax: +81-3-5640-8902

E-mail: globalbusiness@TClchemicals.com

4-10-2, Nihonbashi-Honcho, Chuo-ku, Tokyo 103-0023, Japan

TCl Local Offices

The business names and contact address are listed on page 469.

東京化成工業の糖鎖合成

弊社では、単糖・オリゴ糖ブロックのご提供にとどまらず、化学合成を中心とした機能性糖鎖の大量生産および供給体制を実現させました。これにより、様々な段階の糖鎖研究におけるニーズにお応えすることができます。

糖鎖合成研究のために

機能性糖鎖の合成において特に使用頻度の高い2糖, 3糖の合成原料について、商業レベルでの量産化を実現しました。10 ~ 100kgレベルでご提供が可能です。

糖鎖機能研究のために

癌抗原やウイルス関連糖鎖, あるいはiPS細胞のような多能性幹細胞のマーカー糖鎖などの合成に成功し、数十gレベルでのご提供を開始しました。さらに、これら糖鎖の量産化に向けたプロセスを開発中です。

糖鎖機能を利用したプローブの供給

医薬・診断薬や疾病誘引物質の除去など、実践的な応用利用を目的とした機能性糖鎖プローブをご提供します。生化学, 生物学研究の分野において、ぜひお役立てください。

糖鎖コンジュゲート

糖鎖コンジュゲートは、DDS, タンパク/糖鎖相互解析, アフィニティークロマト, ウィルス・毒素の除去, 糖鎖ワクチンなどへの応用が期待されています。

弊社では、コンジュゲート体に対応可能な糖鎖の供給も可能です。

秘密保持契約

弊社では契約書の有無に関わらず秘密保持に万全を期していますが、別途契約書が必要な場合はお申し付けください。

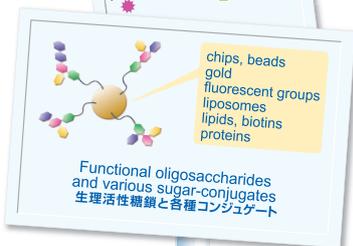
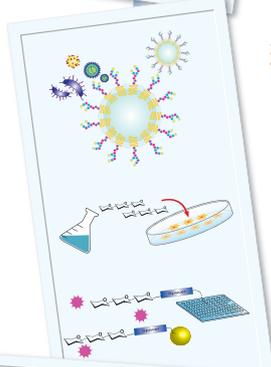
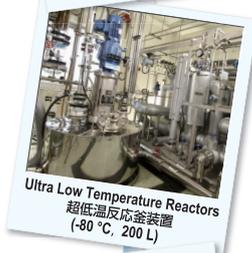
お問い合わせは

東京化成販売株式会社

本社営業部 Tel: 03-3668-0489 Fax: 03-3668-0520
E-mail: sales@TClchemicals.com

大阪営業部 Tel: 06-6228-1155 Fax: 06-6228-1158
E-mail: osaka-s@TClchemicals.com

弊社製品取扱店 本カタログ p.470 ~ 477をご覧ください。





TOKYO CHEMICAL INDUSTRY

Contact Information

製品のご購入について

東京化成販売株式会社
本社営業部
Tel : 03-3668-0489
Fax : 03-3668-0520
E-mail : sales@TCIchemicals.com

大阪営業部
Tel : 06-6228-1155
Fax : 06-6228-1158
E-mail : osaka-s@TCIchemicals.com

受託合成について

東京化成工業株式会社 化成品部
Tel : 03-5651-5171
Fax : 03-5640-8021
E-mail : finechemicals@TCIchemicals.com

技術的なお問い合わせ

東京化成工業株式会社 糖鎖技術部
Tel : 03-3919-9502
Fax : 03-3919-9780

TCI AMERICA

Tel : 800-423-8616 • 503-283-1681
Fax : 888-520-1075 • 503-283-1987
E-mail : sales-us@TCIchemicals.com

East Coast Sales & Distribution Center

Tel : 880-423-8616
Fax : 888-520-1075

TCI Chemicals (India) Pvt. Ltd.

Tel : 044-2262 0909
Fax : 044-2262 8902
E-mail : sales-in@TCIchemicals.com

梯希爱(上海)化成工业发展有限公司

Tel : 800-988-0390 • 021-6712-1386
Fax : 021-6712-1385
E-mail : sales-cn@TCIchemicals.com

TCI EUROPE N.V.

Tel : +32 (0)3 735 07 00
Fax : +32 (0)3 735 07 01
E-mail : sales-be@TCIchemicals.com

TCI Deutschland GmbH

Tel : +49 (0) 6196 64053-00
Fax : +49 (0) 6196 64053-01
E-mail : sales-de@TCIchemicals.com

Tokyo Chemical Industry UK Ltd.

Tel : +44 (0)1865 784560
Fax : +44 (0)1865 784561
E-mail : sales-uk@TCIchemicals.com

TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81-3-5640-8878
Fax : +81-3-5640-8902
E-mail : globalbusiness@TCIchemicals.com

www.TCIchemicals.com

