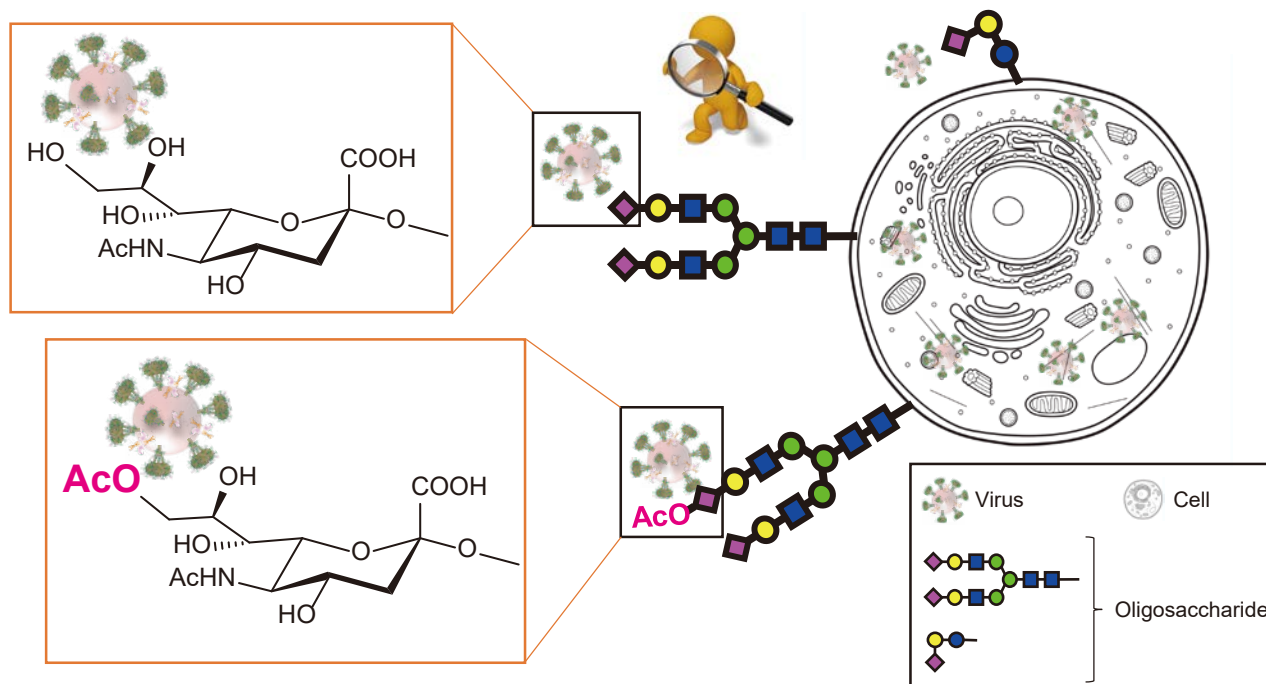


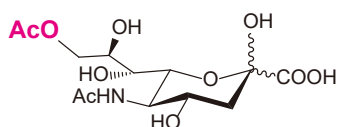
# Chemically Modified Sialic Acids

Modification with an acetyl group on sialic acid significantly impacts the physical properties of sialic acid, known to either mask recognition sites or serving as antigenic determinants. Particularly, influenza C virus, as well as several types of coronaviruses in cattle and humans, and mouse hepatitis virus, bind to receptors containing *N*-acetyl-9-*O*-acetylsialic acid. TCI offers chemically modified sialic acids.



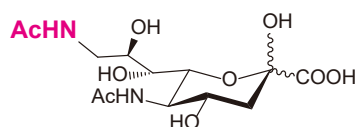
- References 1) A. Varki, *Glycobiology* **1992**, 2, 25. <https://doi.org/10.1093/glycob/2.1.25>  
2) D. Sinha et al., *Trends Glycosci. Glycotechnol.* **2000**, 12, 17. <https://doi.org/10.4052/tigg.12.17>

## 9-O-Modified Sialic Acids



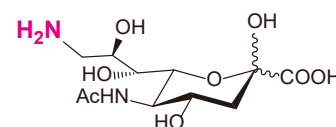
***N*-Acetyl-9-*O*-acetylneuraminic Acid**

5mg  
[A3414]



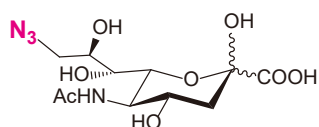
***N*-Acetyl-9-deoxy-9-acetamidoneuraminic Acid**

Contact Us  
[A3415]



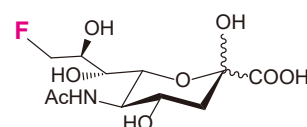
***N*-Acetyl-9-deoxy-9-aminoneuraminic Acid**

Contact Us  
[A2511]



***N*-Acetyl-9-deoxy-9-azidoneuraminic Acid**

5mg  
[A3458]



***N*-Acetyl-9-deoxy-9-fluoroneuraminic Acid**

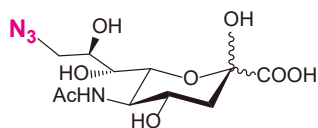
Contact Us  
[A2492]

The acetyl group introduced into the hydroxy group is known to be unstable depending on environmental factors such as pH and esterases.<sup>3)</sup>

- Reference 3) Z. Khedri et al., *ACS Chem. Biol.* **2017**, 12, 214. <https://doi.org/10.1021/acscchembio.6b00928>

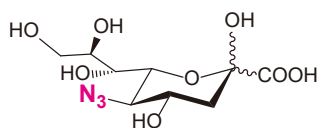
# Chemically Modified Sialic Acids

## Azido Modified Sialic Acids



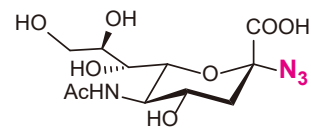
**N-Acetyl-9-deoxy-9-azido-neuraminic Acid**

5mg  
[A3458]



**5-Azidoneuraminic Acid**

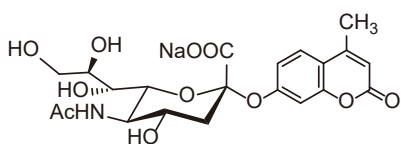
5mg  
[A3483]



**N-Acetyl-2-deoxy-2-azido-α-neuraminic Acid**

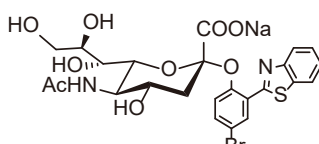
5mg  
[A3416]

## Fluorescent Modified Sialic Acids



**4-Methylumbelliferyl-N-acetyl-α-D-neuraminic Acid Sodium Salt**

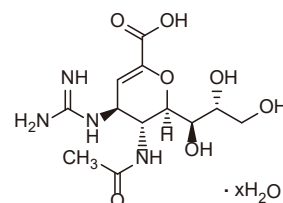
50m  
[M3031]



**BTP3-Neu5Ac Na**

1mg  
[B6529]

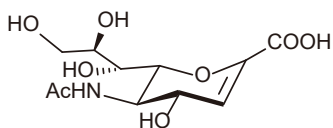
## Zanamivir



**Zanamivir Hydrate**

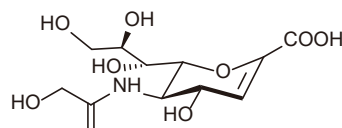
100mg  
[Z0023]

## 2,3-Didehydro-2-deoxy Sialic Acids



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

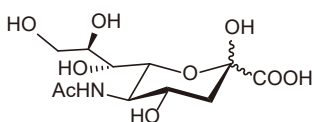
5mg  
[A2205]



**N-Glycolyl-2,3-didehydro-2-deoxyneuraminic Acid**

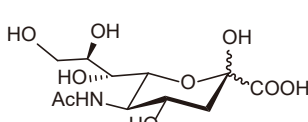
5mg  
[G0588]

## Sialic Acids



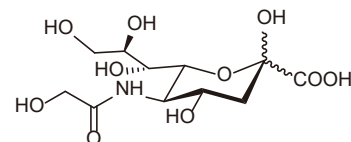
**N-Acetylneuraminic Acid (water <12.5%)**

100mg / 1g / 5g  
[A0639]



**N-Acetylneuraminic Acid**

100mg / 1g / 5g  
[A1105]



**N-Glycolylneuraminic Acid**

10mg  
[G0336]

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).

▶▶▶ TCI sialic



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