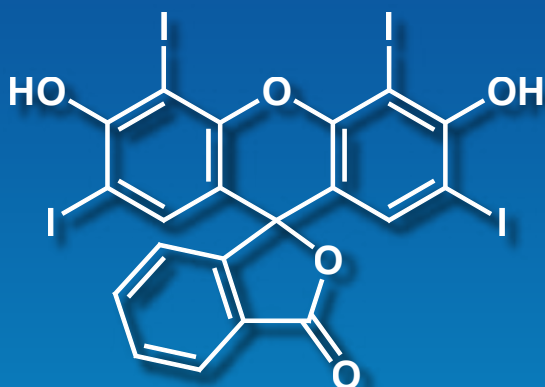


Iodinated Fluorescein for Various Applications



Tetraiodofluorescein

25g

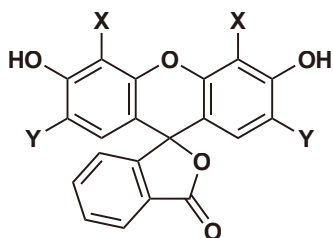
[T0124]

Advantages

- Consistently supplied based on many years of manufacturing experience
- Reasonable price
- Available in large quantities

Absorption and emission properties of T0124 and other halogenated fluoresceins

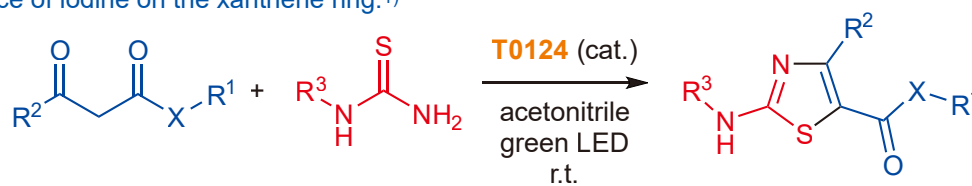
Fluorescein is widely used as a green fluorescence dye and is known to exhibit excellent absorption and emission properties. Halogenated fluoresceins, represented by T0124, show a red shift in excitation wavelength and fluorescence wavelength compared to fluorescein [F0095].



Products	X, Y	$\lambda_{ex, max}$	$\lambda_{em, max}$
Tetraiodofluorescein [T0124]	X=Y=I	535 nm	560 nm
Fluorescein [F0095]	X=Y=H	460 nm	521 nm
2',7'-Dichlorofluorescein [D0371]	X=H Y=Cl	511 nm	533 nm
Tetrabromofluorescein [T0035]	X=Y=Br	524 nm	552 nm

Applications

T0124 has been reported to be applied to organic photocatalytic reactions due to its excellent photocatalytic performance of iodine on the xanthene ring.¹⁾



(X = O/N, R¹ = alkyl, R² = alkyl, R³ = H/alkyl/aryl)

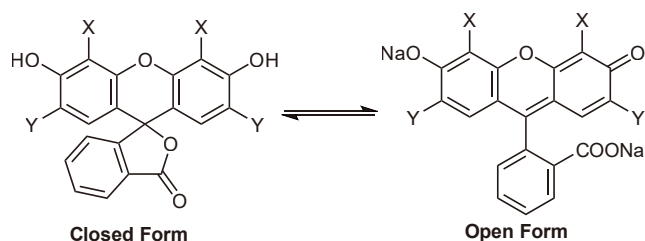
The hydroxy groups of T0124 allow chemical modification while retaining fluorescent properties, and the use of T0124 as a fluorescent label for dendrimers has been reported.²⁾

- References**
- 1) I. I. Roslan, M. A. Gondal, G. K. Chuah, *et al.*, *Adv. Synth. Catal.* **2018**, *360*, 1584. <https://doi.org/10.1002/adsc.201701565>
 - 2) A. Sharma, D. Mejía, D. Maysinger, A. Kakkar, *RSC Adv.* **2014**, *4*, 19242. <https://doi.org/10.1039/C4RA02713B>

Iodinated Fluorescein for Various Applications

Related Products

An open-ring form of each halogenated fluorescein is also available.



	Closed Form	Open Form
X=I, Y=I	T0124	T0557
X=H, Y=H	F0095	F0096
X=H, Y=Cl	D0371	D0424
X=Br, Y=Br	T0035	T0037

[Closed Form]

X=H, Y=H
X=H, Y=Cl
X=Br, Y=Br

Fluorescein
2',7'-Dichlorofluorescein
Tetrabromofluorescein

25g / 100g / 500g **[F0095]**
1g / 25g **[D0371]**
25g **[T0035]**

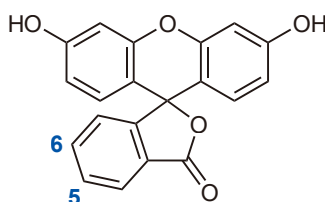
[Open Form]

X=I, Y=I
X=H, Y=H
X=H, Y=Cl
X=Br, Y=Br

Tetraiodofluorescein Sodium Salt
Fluorescein Sodium Salt
2',7'-Dichlorofluorescein Sodium Salt
2',4',5',7'-Tetrabromofluorescein Disodium Salt

25g **[T0557]**
25g / 100g / 500g **[F0096]**
1g / 25g **[D0424]**
25g **[T0037]**

We offer fluorescein derivatives with various substitutions.



5 = -NCS
6 = -NCS
5 = -COOH
6 = -COOH
5 = -CO-NHS
5 = -maleimide
5 = -NH₂
6 = -NH₂
5 = -CONH-Alkyne

Fluorescein 5-Isothiocyanate (isomer I)
Fluorescein 6-Isothiocyanate (isomer II)
5-Carboxyfluorescein
6-Carboxyfluorescein
5-Carboxyfluorescein N-Succinimidyl Ester
Fluorescein-5-maleimide
5-Aminofluorescein (isomer I)
6-Aminofluorescein (isomer II)
5-FAM-Alkyne

100mg / 1g **[F0026]**
100mg **[F0783]**
100mg **[C2477]**
100mg **[C2478]**
20mg / 100mg **[C2479]**
25mg **[F0810]**
1g / 5g **[A0306]**
1g / 5g **[A0864]**
25mg **[F1222]**

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