

## Difluorocarboxyfluorescein NHS Ester, 6-isomer

## Chemical Properties

CAS No. : 2702251-82-7

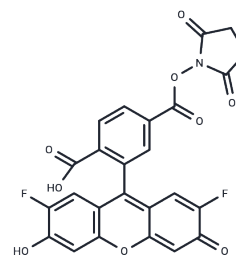
Formula: C<sub>25</sub>H<sub>13</sub>F<sub>2</sub>N<sub>2</sub>O<sub>9</sub>

Molecular Weight: 509.369

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Difluorocarboxyfluorescein NHS Ester, 6-isomer, is a fluorescent analogue of fluorescein that reacts with amines. It addresses several limitations of fluorescein, offering enhanced photostability and a lower pKa (~4.7 compared to fluorescein's 6.4), resulting in fluorescence that remains largely pH-insensitive within physiological ranges. Although mixed isomers of difluorocarboxyfluorescein NHS ester are often used as routine fluorescent dyes for labeling proteins, peptides, and nucleotides, purifying peptides and nucleotides labeled with the 5(6) isomer can be challenging due to signal broadening during HPLC purification. Peptides and nucleotides labeled with a single isomer typically show improved resolution in HPLC purification, which is often necessary during conjugation processes.
Targets(IC50)	Others

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9632 mL	9.816 mL	19.6321 mL
5 mM	0.3926 mL	1.9632 mL	3.9264 mL
10 mM	0.1963 mL	0.9816 mL	1.9632 mL
50 mM	0.0393 mL	0.1963 mL	0.3926 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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