

BDP 581/591 NHS ester

Chemical Properties

CAS No. : 654651-21-5

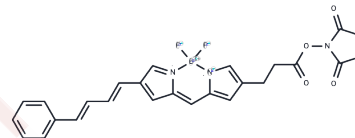
Formula: C₂₆H₂₂BF₂N₃O₄

Molecular Weight: 489.28

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	BDP 581/591 NHS ester, a borondipyrromethene dye (Ex=585 nm, Em=594 nm), exhibits a relatively long fluorescence lifetime and significant two-photon excitation cross-section. This compound is applicable in fluorescence polarization analysis, interacts with reactive oxygen species (ROS) to modify fluorescence, and, as an NHS ester derivative, binds to the primary and secondary amine groups of proteins, peptides, and various molecules. Storage instructions highlight the importance of protecting it from light.
Targets(IC50)	Others, Reactive Oxygen Species

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0438 mL	10.2191 mL	20.4382 mL
5 mM	0.4088 mL	2.0438 mL	4.0876 mL
10 mM	0.2044 mL	1.0219 mL	2.0438 mL
50 mM	0.0409 mL	0.2044 mL	0.4088 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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