

DMHBO+

Chemical Properties

CAS No. : 2322286-81-5

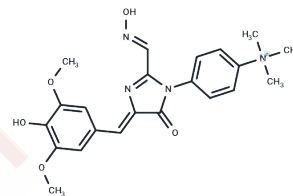
Formula: C22H25IN4O5

Molecular Weight: 552.37

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	DMHBO+ is a cationic fluorophore that exhibits fluorescence upon binding to the chili aptamer ($K_d = 12$ nM), forming a complex that mimics red fluorescent proteins and is optimal for RNA imaging in cells. This compound serves as an excellent FRET donor to the rhodamine dye Atto 590, highlighting its utility in FRET-based analytical RNA systems. Key characteristics include excitation/emission maxima (λ) of 456/592 nm, a quantum yield of 0.1, and a Stokes shift of 136 nm.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8104 mL	9.0519 mL	18.1038 mL
5 mM	0.3621 mL	1.8104 mL	3.6208 mL
10 mM	0.181 mL	0.9052 mL	1.8104 mL
50 mM	0.0362 mL	0.181 mL	0.3621 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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