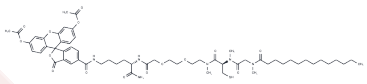
Data Sheet (Cat.No.T86895)

TargetMol

Mgc(3Me)FDA

Chemical Properties



CAS No. : 2763442-01-7

Formula: C59H80N6O15S

Molecular Weight: 1145.36

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	Mgc(3Me)FDA, a derivative of fluorescein diacetate (FDA) that incorporates a cell-permeable myrGC 3Me motif, effectively penetrates cells. Once inside, it transforms into the fluorescently active mgc(3Me)FL. This compound specifically accumulates in the Golgi apparatus, serving as a visualized Golgi probe [1].
Targets(IC50)	Others
In vitro	mgc(3Me)FDA, when applied at 10 μM for 10 minutes to HeLa cells, localizes with the Golgi apparatus around the cell nucleus and exhibits green fluorescence [1]. At a concentration of 2.5 μM for 30-270 minutes, mgc(3Me)FDA allows visualization of dynamic morphological changes in the Golgi apparatus during Brefeldin A-induced disassembly in live HeLa cells [1]. Immunofluorescence studies conducted on human epithelial HeLa cells showed fluorescence mainly in the perinuclear Golgi region, co-localizing with the Golgi-tagged fluorescent protein mCherry-Giantin at a concentration of 10 μM for an incubation time of 10 minutes.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8731 mL	4.3654 mL	8.7309 mL
5 mM	0.1746 mL	0.8731 mL	1.7462 mL
10 mM	0.0873 mL	0.4365 mL	0.8731 mL
50 mM	0.0175 mL	0.0873 mL	0.1746 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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