

C6 NBD Ceramide

Chemical Properties

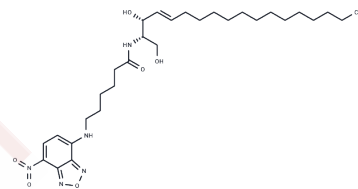
CAS No. : 94885-02-6

Formula: C30H49N5O6

Molecular Weight: 575.74

Storage: Keep away from direct sunlight
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	C6 NBD Ceramide is a cell-permeable Golgi fluorescent probe (Ex=466 nm, Em=536 nm), a neuraminidic acid with a green fluorescent tag that can recognize Golgi apparatus in live and fixed cells, observing morphological changes of the Golgi apparatus in live cells. C6 NBD Ceramide can be metabolized intracellularly to generate fluorescent sphingomyelin and glucosylceramide, thus applied in studies of sphingolipid transport and metabolism mechanisms.
Targets(IC50)	Others
In vitro	<p>The recommended protocol for labeling the Golgi apparatus [3] is as follows: Begin by rinsing cells on glass cover slips with HMEM and fixing them in glutaraldehyde or paraformaldehyde for 5-10 minutes at 25°C. Then, wash the fixed cells using a balanced salt solution like HCMF. Transfer the cells in their culture dishes to an ice-water bath and treat with freshly prepared NaBH₄ for three 5-minute intervals if fixed with glutaraldehyde. Subsequently, rinse the cells multiple times in cold HCMF for 20-30 minutes, warm them to 25°C, and incubate with C6 NBD-ceramide/BSA for 60 minutes. Following incubation, wash the cells with HCMF and treat with either 10% fetal calf serum or 2 mg/mL BSA for 30-90 minutes at 25°C to facilitate back-exchange of excess C6 NBD-ceramide and enhance Golgi staining. Finally, mount the glass cover slips on depression slides and examine under a fluorescence microscope with an excitation of 466 nm and emission of 536 nm.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7369 mL	8.6845 mL	17.369 mL
5 mM	0.3474 mL	1.7369 mL	3.4738 mL
10 mM	0.1737 mL	0.8684 mL	1.7369 mL
50 mM	0.0347 mL	0.1737 mL	0.3474 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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