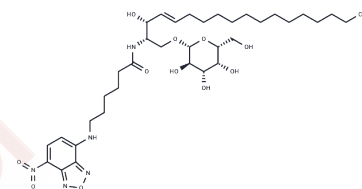


## C6 NBD Galactosylceramide

## Chemical Properties

CAS No. :	170212-26-7
Formula:	C <sub>36</sub> H <sub>59</sub> N <sub>5</sub> O <sub>11</sub>
Molecular Weight:	737.88
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	C6 NBD galactosylceramide, an active derivative of galactosylceramide tagged with fluorescent nitrobenzoxadiazole (NBD), serves as a substrate for neutral $\beta$ -glucosylceramidase (GCase) in studies of intracellular localization and metabolism of galactosylceramide (Ex=nm, Em=525) [1].
Targets(IC50)	Others
In vitro	<p>C6-NBD-glucosylceramide (4 <math>\mu</math>M) undergoes transport to the Golgi apparatus in HT29 cells [1]. According to our recommended protocol, transcytosis of exogenous C6-NBD-GalCer follows these steps after endocytosis: Initially, C6-NBD-glucosylceramide is inserted at 10°C. Subsequently, cells are subjected to three cold HBSS rinses and maintained at 37°C in HBSS to facilitate endocytosis. After 10 minutes, residual probe on the cell surface is eliminated through either two (apical) or three (basal) 20-minute BSA washes at 10°C. Lipid analysis using one set of filters quantifies the endocytosis, while a second set incubated for either 0.5 or 1 hour at 37°C in HBSS + BSA measures the reemergence of intracellular C6-NBD-glucosylceramide on the cell surfaces. Post-incubation, a 10°C BSA wash is conducted before extracting the NBD lipids into chloroform/methanol from both apical and basal media, as well as the cells, which are then analyzed and quantitated by TLC.</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

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	1mg	5mg	10mg
1 mM	1.3552 mL	6.7762 mL	13.5523 mL
5 mM	0.271 mL	1.3552 mL	2.7105 mL
10 mM	0.1355 mL	0.6776 mL	1.3552 mL
50 mM	0.0271 mL	0.1355 mL	0.271 mL

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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.

### Reference

Kok JW, et al. Sorting of sphingolipids in the endocytic pathway of HT29 cells. *J Cell Biol.* 1991 Jul;114(2):231-9.

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