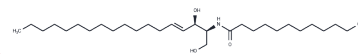


C12-Ceramide

Chemical Properties

CAS No. :	74713-60-3
Formula:	C30H59NO3
Molecular Weight:	481.79
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	C12-Ceramide (C12 Ceramide (d18:1/12:0)), a ceramide present in the protective membranes surrounding umbilical cord blood vessels in infants born to women with pre-eclampsia, can be used to assess the level of ASM activity in the plasma of patients with Niemann-Pick disease.
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	Ethanol: 8.33 mg/mL (17.29 mM),Sonication is recommended. DMF: 22 mg/mL (45.66 mM),Sonication is recommended. DMSO: 1.72 mg/mL (3.57 mM),Sonication is recommended. PBS (pH 7.2): <50µg/mL,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0756 mL	10.378 mL	20.7559 mL
5 mM	0.4151 mL	2.0756 mL	4.1512 mL
10 mM	0.2076 mL	1.0378 mL	2.0756 mL
50 mM	0.0415 mL	0.2076 mL	0.4151 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.

Reference

He X, et al. A fluorescence-based, high-performance liquid chromatographic assay to determine acid sphingomyelinase activity and diagnose types A and B Niemann-Pick disease. *Anal Biochem.* 2003 Mar 1;314(1): 116-20.

Øverbye A, et al. Ceramide-containing liposomes with doxorubicin: time and cell-dependent effect of C6 and C12 ceramide. *Oncotarget.* 2017 Aug 12;8(44):76921-76934.

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