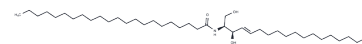


## C22 Ceramide (d18:1/22:0)

## Chemical Properties

CAS No. :	27888-44-4
Formula:	C40H79NO3
Molecular Weight:	622.06
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	C22 Ceramide (d18:1/22:0) (C22 Ceramide), a long-chain ceramide containing behenic acid, is an endogenous bioactive sphingolipid. C22-Ceramide specifically inhibits MCSR and reduces C16 ceramide channel formation in isolated rat liver mitochondria and liposomes.
Targets(IC50)	Others, Liposome

## Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble) DMF: 0.15 mg/mL (0.24 mM), Sonication is recommended. DMSO: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6076 mL	8.0378 mL	16.0756 mL
5 mM	0.3215 mL	1.6076 mL	3.2151 mL
10 mM	0.1608 mL	0.8038 mL	1.6076 mL
50 mM	0.0322 mL	0.1608 mL	0.3215 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

Stiban J, et al. Very long chain ceramides interfere with C16-ceramide-induced channel formation: A plausible mechanism for regulating the initiation of intrinsic apoptosis. *Biochim Biophys Acta*. 2015 Feb;1848(2):561-7.

Separovic D, et al. Increased killing of SCCVII squamous cell carcinoma cells after the combination of Pc 4 photodynamic therapy and dasatinib is associated with enhanced caspase-3 activity and ceramide synthase 1 upregulation. *Int J Oncol*. 2013 Dec;43(6):2064-72.

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