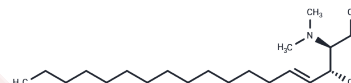


N,N-Dimethylsphingosine

Chemical Properties

CAS No. :	119567-63-4
Formula:	C ₂₀ H ₄₁ NO ₂
Molecular Weight:	327.55
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	N,N-Dimethylsphingosine, an endogenous metabolite, is a potent competitive sphingosine kinase (SphK) inhibitor that selectively inhibits sphingosine phosphorylation without affecting its N-acylation. DMS is elevated in models of neuropathic pain, and may mediate mechanical nociception by increasing the release of
Targets(IC50)	S1P Receptor
In vitro	Methods: RAW264.7 cells were treated with N,N-Dimethylsphingosine (0-5µM, 24 hours), and cell viability was determined by MTT assay. Results: N,N-Dimethylsphingosine can inhibit the growth of RAW264.7 cells with an IC50 value of 2.3µM. [1]

Solubility Information

Solubility	Ethanol: 20 mg/mL (61.06 mM), Sonication is recommended. DMSO: 5 mg/mL (15.26 mM), 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	3.053 mL	15.2648 mL	30.5297 mL
5 mM	0.6106 mL	3.053 mL	6.1059 mL
10 mM	0.3053 mL	1.5265 mL	3.053 mL
50 mM	0.0611 mL	0.3053 mL	0.6106 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

Endo K, et al. Cell membrane signaling as target in cancer therapy: inhibitory effect of N,N-dimethyl and N,N,N-trimethyl sphingosine derivatives on in vitro and in vivo growth of human tumor cells in nude mice. Cancer Res.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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