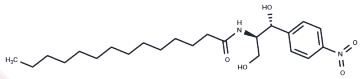
Data Sheet (Cat.No.T22069)

TargetMol

D-NMAPPD

Chemical Properties



CAS No. : 35922-06-6

Formula: C23H38N2O5

Molecular Weight: 422.56

Storage: Store at low temperature
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	D-NMAPPD ((1R,2R)-B13) is an acid ceramidase inhibitor and ceramide analog with potential antiproliferative activity that modulates ceramide signaling in human melanoma cells. D-NMAPPD is used in the study of colon cancer.
Targets(IC50)	iGluR
In vitro	In rat hippocampal slices, NMDA receptor-mediated field excitatory postsynaptic potentials (fEPSPs) at synapses in the CA1 region were significantly enhanced by pretreatment with the acidic ceramidase inhibitor D-NMAPPD. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3665 mL	11.8326 mL	23.6653 mL
5 mM	0.4733 mL	2.3665 mL	4.7331 mL
10 mM	0.2367 mL	1.1833 mL	2.3665 mL
50 mM	0.0473 mL	0.2367 mL	0.4733 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

Laurier-Laurin ME, et al. Blockade of lysosomal acid ceramidase induces GluN2B-dependent Tau phosphorylation in rat hippocampal slices. Neural Plast. 2014;2014:196812.

Selzner M, et al. Induction of apoptotic cell death and prevention of tumor growth by ceramide analogues in metastatic human colon cancer. Cancer Res. 2001 Feb 1;61(3):1233-40.

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