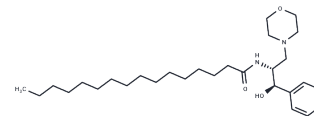


D-threo-PPMP hydrochloride

Chemical Properties

CAS No. :	139889-65-9
Formula:	C ₂₉ H ₅₁ ClN ₂ O ₃
Molecular Weight:	511.19
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	D-threo-PPMP is a glucosylceramide (GlyCer) synthetase inhibitor. ^{1,2} It is the active enantiomer and enzymatic inhibitory component of the racemic DL-threo-PPMP . In MDCK kidney epithelial cells, D-threo-PPMP induces a 70% reduction in cell growth in vitro at 20 μM and significantly inhibits DNA synthesis at 3 μM. ³
Targets(IC50)	Others,Transferase

Solubility Information

Solubility	Ethanol: Soluble Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9562 mL	9.7811 mL	19.5622 mL
5 mM	0.3912 mL	1.9562 mL	3.9124 mL
10 mM	0.1956 mL	0.9781 mL	1.9562 mL
50 mM	0.0391 mL	0.1956 mL	0.3912 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

Shen, W., Henry, A.G., Paumier, K.L., et al. Inhibition of glucosylceramide synthase stimulates autophagy flux in neurons. *J. Neurochem.* 129(5):884-894(2014)

Lee, L., Abe, A., and Shayman, J.A. Improved inhibitors of glucosylceramide synthase. *J. Biol. Chem.* 274(21):14662-14669(1999)

Abe, A., Inokuchi, J.-i., Jimbo, M., et al. Improved inhibitors of glucosylceramide synthase. *Biochem.* 111(2):191-196(1992)

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