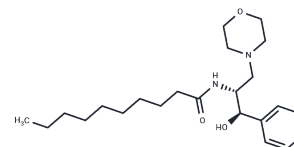


(+)-D-threo-PDMP (hydrochloride)**Chemical Properties**

CAS No. : 139889-62-6
 Formula: C₂₃H₃₉ClN₂O₃
 Molecular Weight: 427.03
 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-PDMP is a ceramide analog and is one of the four possible stereoisomers of PDMP. (+)-D-threo-PDMP is an inhibitor of glucosylceramide synthase. It inhibits glucosylceramide synthase by 50% when used at a concentration of 5 μ M in an enzyme assay. (+)-D-threo-PDMP is the active component of racemic DL-threo-PDMP.
Targets(IC50)	Others,Transferase
In vitro	In vitro, (+)-D-threo-PDMP inhibits the synthesis of glucosylceramide synthase and lactosylceramide in B16 melanoma cells when used at a concentration of 25 μ M and inhibits cell binding to laminin and collagen when used at concentrations of 10 and 25 μ M. It also inhibits β -1,4-galactosyltransferase 6 (B4GALT6) and prevents lactosylceramide synthesis, which is a promotor of neuroinflammation in mice during chronic experimental autoimmune encephalomyelitis (EAE), a model of multiple sclerosis. (+)-D-threo-PDMP inhibits ganglioside biosynthesis, reduces long-term potentiation (LTP) in mouse hippocampal CA1 neurons, and impairs learning in the four-pellet taking test in mice.

Solubility Information

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

	1mg	5mg	10mg
1 mM	2.3418 mL	11.7088 mL	23.4176 mL
5 mM	0.4684 mL	2.3418 mL	4.6835 mL
10 mM	0.2342 mL	1.1709 mL	2.3418 mL
50 mM	0.0468 mL	0.2342 mL	0.4684 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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