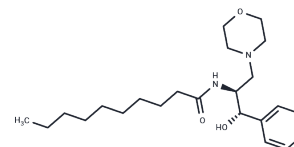


## (-)-L-threo-PDMP (hydrochloride)

### Chemical Properties

CAS No. :	161491-04-9
Formula:	C <sub>23</sub> H <sub>39</sub> ClN <sub>2</sub> O <sub>3</sub>
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	(-)-L-threo-PDMP is an enhancer of ganglioside biosynthesis. The (-)-L-threo-PDMP (1S, 2S) isomer is the active stimulatory component of DL-threo-PDMP in contrast to (+)-D-threo-PDMP, which is an inhibitor of glucosylceramide synthetase. (-)-L-threo-PDMP upregulates GM3, GD3, and GQ1b synthase levels, which are glycosyltransferases involved in ganglioside biosynthesis, and increases ganglioside levels in cells. It increases neurite outgrowth and synapse formation in vitro and improves retention of a long-term memory learned prior to forebrain ischemia in rats when administered following ischemia at a dose of 40 mg/kg per day.
Targets(IC50)	Others, Transferase

### 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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