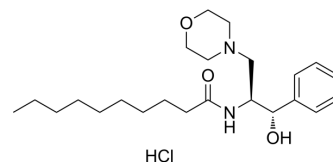


## (-)-L-threo-PDMP hydrochloride

Cat. No.:	HY-116392A
CAS No.:	161491-04-9
Molecular Formula:	C <sub>23</sub> H <sub>39</sub> ClN <sub>2</sub> O <sub>3</sub>
Molecular Weight:	427.02
Target:	Glucosylceramide Synthase (GCS)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

(-)-L-threo-PDMP hydrochloride is the hydrochloride form of (-)-L-threo-PDMP. L-threo-PDMP is a glucosylceramide synthase (GCS) inhibitor. L-threo-PDMP stimulates the proliferation of cultured aortic smooth muscle cells, and that increases the level of LacCer in B16 melanoma cells<sup>[1][2]</sup>.

### REFERENCES

- [1]. Mitchell SA, et al. Glycosyltransferase Inhibitors: Synthesis of D-threo-PDMP, L-threo-PDMP, and Other Brain Glucosylceramide Synthase Inhibitors from D- or L-Serine. *The Journal of Organic Chemistry*. 1998, 63(24): 8837-8842.
- [2]. Chatterjee S, et al. Studies of the action of ceramide-like substances (D- and L-PDMP) on sphingolipid glycosyltransferases and purified lactosylceramide synthase. *Glycoconj J*. 1996 Jun;13(3):481-6.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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