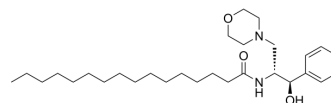


D-threo-PPMP

Cat. No.:	HY-116535C
CAS No.:	139889-53-5
Molecular Formula:	C ₂₉ H ₅₀ N ₂ O ₃
Molecular Weight:	474.72
Target:	Glucosylceramide Synthase (GCS)
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	D-threo-PPMP is a potent inhibitor of glucosylceramide (GlcCer) synthase. D-threo-PPMP can block karyokinesis and reduce cyst production ^{[1][2]} .
IC₅₀ & Target	glucosylceramide synthase ^[1]
In Vitro	D-threo-PPMP (10 μM; 72 h) decreases the MDR1 expression by 70% in KB-V0.01 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Gouazé V, et, al. Glucosylceramide synthase blockade down-regulates P-glycoprotein and resensitizes multidrug-resistant breast cancer cells to anticancer drugs. *Cancer Res.* 2005 May 1;65(9):3861-7.
- [2]. Hernandez Y. Novel role of sphingolipid synthesis genes in regulating giardial encystation. *Infect Immun.* 2008 Jul;76(7):2939-49.
- [3]. Wu X, et, al. Liquid chromatography method for quantifying D-threo-1-phenyl-2-palmitoylamino-3-morpholino-1-propanol (D-threo-PPMP) in mouse plasma and liver. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2006 Jun 6;837(1-2):44-8.

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

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