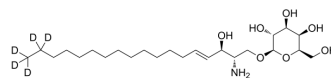


Psychosine-d₅

Cat. No.:	HY-136490S
CAS No.:	2260670-12-8
Molecular Formula:	C ₂₄ H ₄₂ D ₅ NO ₇
Molecular Weight:	466.66
Target:	PKC
Pathway:	Epigenetics; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Psychosine-d ₅ is deuterium labeled Psychosine. Psychosine, a substrate of the galactocerebrosidase (GALC) enzyme, is a potential biomarker for Krabbe disease. Psychosine is a highly cytotoxic lipid, capable of inducing cell death in a wide variety of cell.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. M L Escolar, et al. Psychosine, a marker of Krabbe phenotype and treatment effect. *Mol Genet Metab.* 2017 Jul;121(3):271-278.
- [2]. Jacqueline A Hawkins-Salsbury, et al. Psychosine, the cytotoxic sphingolipid that accumulates in globoid cell leukodystrophy, alters membrane architecture. *J Lipid Res.* 2013 Dec;54(12):3303-11.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-223.

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

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