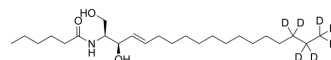


Ceramide C6-d₇

Cat. No.:	HY-19542S
CAS No.:	2692624-22-7
Molecular Formula:	C ₂₄ H ₄₀ D ₇ NO ₃
Molecular Weight:	404.68
Target:	Apoptosis; Isotope-Labeled Compounds
Pathway:	Apoptosis; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ceramide C6-d ₇ is the deuterium labeled Ceramide C6. Ceramide C6, a Ceramide pathway activator, is an exogenous short-chain ceramide which can induce apoptosis of multiple cancer cells[1][2][3].
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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Qiu L, et al. C6-ceramide induces salivary adenoid cystic carcinoma cell apoptosis via IP3R-activated UPR and UPR-independent pathways. *Biochem Biophys Res Commun*. 2020;525(4):997-1003.
- [3]. Liu L, et al. C6-ceramide treatment inhibits the proangiogenic activity of multiple myeloma exosomes via the miR-29b/Akt pathway. *J Transl Med*. 2020;18(1):298. Published 2020 Aug 3.

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

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