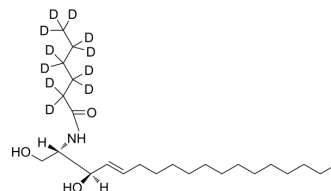


C6 Ceramide-d₁₁

Cat. No.:	HY-19542S1
Molecular Formula:	C ₂₄ H ₃₆ D ₁₁ NO ₃
Molecular Weight:	408.7
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	C6 Ceramide-d ₁₁ is deuterated labeled C6 Ceramide (HY-19542). C6-ceramide, a ceramide pathway activator, shows activity against a variety of cancer cell lines. C6-ceramide can be used as an adjuvant for chemotherapeutic agents, to enhance anti-tumor effects ^{[1][2]} .
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]. Zhu Q, et, al. C6-ceramide synergistically potentiates the anti-tumor effects of histone deacetylase inhibitors via AKT dephosphorylation and α-tubulin hyperacetylation both in vitro and in vivo. *Cell Death Dis.* 2011 Jan 27;2(1):e117.
- [2]. 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 Aug 3;18(1):298.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA