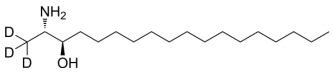
Spisulosine-d_3

Cat. No.:	HY-13626S
CAS No.:	1246298-31-6
Molecular Formula:	$C_{18}H_{36}D_3NO$
Molecular Weight:	288.53
Target:	PKC; Isotope-Labeled Compounds
Pathway:	Epigenetics; TGF-beta/Smad; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Spisulosine-d_3 is deuterium labeled Spisulosine. Spisulosine (ES-285) is an antiproliferative (antitumoral) compound of marine origin. Spisulosine inhibits the growth of the prostate PC-3 and LNCaP cells through intracellular ceramide accumulation and PKC
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[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ana M Sánchez, et al. Spisulosine (ES-285) induces prostate tumor PC-3 and LNCaP cell death by de novo synthesis of ceramide and PKCzeta activation. Eur J Pharmacol. 2008 Apr 28;584(2-3):237-45.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-223.

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