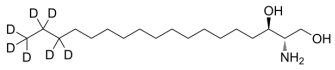
D-Erythro-dihydrosphingosine-d_7

Cat. No.:	HY-W019838S
CAS No.:	1246304-35-7
Molecular Formula:	$C_{18}H_{32}D_7NO_2$
Molecular Weight:	308.55
Target:	Phospholipase; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	D-Erythro-dihydrosphingosine-d_7 is the deuterium labeled D-Erythro-dihydrosphingosine. D-Erythro-dihydrosphingosin directly inhibits cytosolic phospholipase A2α (cPLA2α) activity.
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]. Nakamura H, et al. Inhibition of arachidonic acid release and cytosolic phospholipase A2 alpha activity by D-erythro-sphingosine. Eur J Pharmacol. 2004 Jan 19;484(1):9-17.

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

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