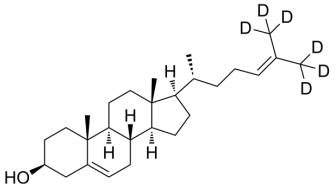
Desmosterol-d_6

Cat. No.:	HY-113224S
CAS No.:	1246298-67-8
Molecular Formula:	$C_{27}H_{38}D_6O$
Molecular Weight:	390.67
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Desmosterol-d_6 is the deuterium labeled Desmosterol. Desmosterol is a molecule similar to cholesterol. Desmosterol is the immediate precursor of cholesterol in the Bloch pathway of cholesterol biosynthesis. Desmosterol, as an endogenous metabolite, used to study cholesterol metabolism[1].
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]. Clark RM, et al. Desmosterol in human milk. Lipids. 1983;18(3):264-266.

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

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