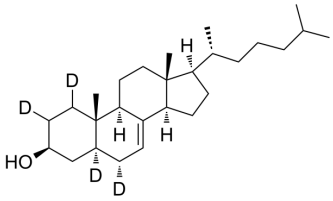
(S)-Lathosterol-d4

Cat. No.:	HY-113486S
CAS No.:	1182005-25-9
Molecular Formula:	$C_{27}H_{42}D_4O$
Molecular Weight:	390.68
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(S)-Lathosterol-d4 is the deuterium labeled (S)-Lathosterol. Lathosterol is a cholesterol-like molecule. Serum Lathosterol concentration is an indicator of whole-body cholesterol synthesis[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]. Kempen HJ, et al. Serum Lathosterol concentration is an indicator of whole-body cholesterol synthesis in humans. J Lipid Res. 1988 Sep;29(9):1149-55.

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