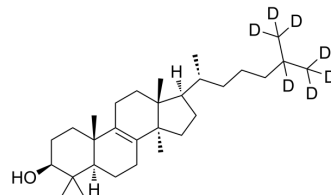


Dihydrolanosterol-d₇

Cat. No.:	HY-122410S
CAS No.:	2260669-12-1
Molecular Formula:	C ₃₀ H ₄₅ D ₇ O
Molecular Weight:	435.78
Target:	Cytochrome P450; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dihydrolanosterol-d ₇ is deuterium labeled Dihydrolanosterol. Dihydrolanosterol is a substrate of CYP51 and a cholesterol biosynthesis inhibitor[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[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Lepesheva GI, Waterman MR. Sterol 14alpha-demethylase cytochrome P450 (CYP51), a P450 in all biological kingdoms. *Biochim Biophys Acta*. 2007;1770(3):467-477.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-223.

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

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