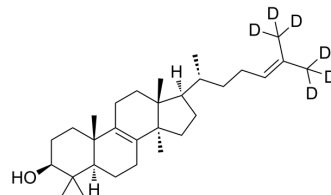


Lanosterol-d₆

Cat. No.:	HY-W020033S
CAS No.:	28290-39-3
Molecular Formula:	C ₃₀ H ₄₄ D ₆ O
Molecular Weight:	432.75
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	<div>Powder -20°C 3 years</div> <div>In solvent -80°C 6 months</div> <div> -20°C 1 month</div>



BIOLOGICAL ACTIVITY

Description	Lanosterol-d ₆ is deuterium labeled Lanosterol. Lanosterol is an intermediate of cholesterol synthesis and use of lanosterol induces ubiquitination and degradation of a rate-controlling enzyme of cholesterol synthesis, i.e., HMG CoA reductase. Lanosterol s
In Vitro	<p>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^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Upadhyay A, et al. Lanosterol Suppresses the Aggregation and Cytotoxicity of Misfolded Proteins Linked with Neurodegenerative Diseases. *Mol Neurobiol*. 2018;55(2):1169-1182.
- [2]. Lee S, et al. Lanosterol influences cytoplasmic maturation of pig oocytes in vitro and improves preimplantation development of cloned embryos. *Theriogenology*. 2016;85(4):575-584.
- [3]. 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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