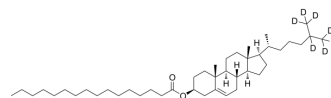


Cholesteryl palmitate-d₇

Cat. No.:	HY-W010708S1
CAS No.:	1416275-32-5
Molecular Formula:	C ₄₃ H ₆₉ D ₇ O ₂
Molecular Weight:	632.11
Target:	Endogenous Metabolite; 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	Cholesteryl palmitate-d ₇ is deuterium labeled Cholesteryl palmitate. Cholesteryl palmitate is a useful prognostic biomarker for chronic interstitial pneumonia (CIP)[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]. Fukuhara N, et al. Cholesteryl palmitate crystals in bronchoalveolar lavage fluid smears as a possible prognostic biomarker for chronic interstitial pneumonia: A preliminary study. *Respir Investig*. 2016 Mar;54(2):109-15.
- [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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