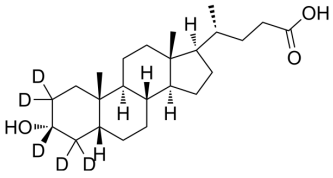
Lithocholic acid-d_5

Cat. No.:	HY-B0172S1
CAS No.:	52840-06-9
Molecular Formula:	$C_{24}H_{35}D_5O_3$
Molecular Weight:	381.6
Target:	Apoptosis; Autophagy; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Apoptosis; Autophagy; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Lithocholic acid-d_5 is deuterium labeled Lithocholic acid.
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]. Goldberg, A.A., et al., Lithocholic bile acid selectively kills neuroblastoma cells, while sparing normal neuronal cells. Oncotarget, 2011. 2(10): p. 761-82.

[3]. Jenkins, D.J., et al., Effect on blood lipids of very high intakes of fiber in diets low in saturated fat and cholesterol. N Engl J Med, 1993. 329(1): p. 21-6.

[4]. Matsubara, T., et al., TGF-beta-SMAD3 signaling mediates hepatic bile acid and phospholipid metabolism following lithocholic acid-induced liver injury. J Lipid Res, 2012. 53(12): p. 2698-707.

[5]. Yang R, et al. Metabolomic analysis of cholestatic liver damage in mice. Food Chem Toxicol. 2018 Jul 14;120:253-260.

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