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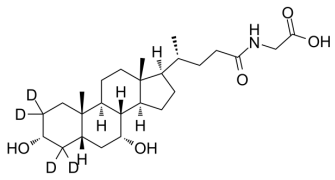
Glycochenodeoxycholic acid-d_4

Cat. No.:	HY-N2334S
CAS No.:	1201918-16-2
Molecular Formula:	$C_{26}H_{39}D_4NO_5$
Molecular Weight:	453.65
Target:	Apoptosis; Endogenous Metabolite
Pathway:	Apoptosis; Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Glycochenodeoxycholic acid-d_4 is the deuterium labeled Glycochenodeoxycholic acid. Glycochenodeoxycholic acid (Chenodeoxycholylglycine) is a bile acid formed in the liver from chenodeoxycholate and glycine. It acts as a detergent to solubilize fats for absorption and is itself absorbed. Glycochenodeoxycholic acid (Chenodeoxycholylglycine) induces hepatocyte apoptosis[1][2].
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]. Liang S, et al. Effect of quercetin 7-rhamnoside on glycochenodeoxycholic acid-induced L-02 human normal livercell apoptosis. Int J Mol Med. 2013 Aug;32(2):323-30.

[3]. Gonzalez B, et al. Glycochenodeoxycholic acid (GCDC) induced hepatocyte apoptosis is associated with early modulation of intracellular PKC activity. Mol Cell Biochem. 2000 Apr;207(1-2):19-27.

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