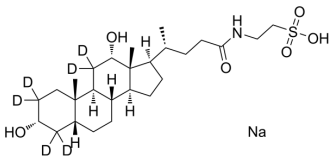
Taurodeoxycholate-d_6 sodium salt

Cat. No.:	HY-128853S
CAS No.:	2687960-92-3
Molecular Formula:	$C_{26}H_{39}D_6NNaO_6S$
Molecular Weight:	528.73
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Taurodeoxycholate-d_6 (sodium salt) is the deuterium labeled Taurodeoxycholate sodium salt[1]. Taurodeoxycholate sodium salt is a bile salt-related anionic detergent used for isolation of membrane proteins including inner mitochondrial membrane proteins. Taurodeoxycholate (TDCA) inhibits various inflammatory responses[2]. [2][3].
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 Feb;53(2):211-216.

[2]. Villavicencio-Queijeiro A, et al. The fully-active and structurally-stable form of the mitochondrial ATP synthase of Polytomella sp. is dimeric. J Bioenerg Biomembr. 2009 Feb;41(1):1-13.

[3]. Kispal G,et al. Isolation and characterization of 3-hydroxyacyl coenzyme A dehydrogenase-binding protein from pig heart inner mitochondrial membrane. J Biol Chem. 1986 Oct 25261(30):14209-13.

[4]. Choi HJ, et al. Evaluation of acute and subacute toxicity of sodium taurodeoxycholate in rats. Drug Chem Toxicol. 2019 Jun 19:1-9.

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