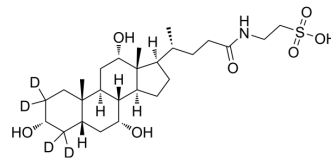


Taurocholic acid-d₄

Cat. No.:	HY-B1788S1
CAS No.:	252030-90-3
Molecular Formula:	C ₂₆ H ₄₁ D ₄ NO ₇ S
Molecular Weight:	519.73
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Solution, -20°C, 2 years



BIOLOGICAL ACTIVITY

Description	Taurocholic acid-d ₄ is deuterium labeled Taurocholic acid. Taurocholic acid (N-Choloyltaurine) is a bile acid involved in the emulsification of fats.
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]. Mooranian A, et al. The effect of a tertiary bile acid, taurocholic acid, on the morphology and physical characteristics of microencapsulated probucol: potential applications in diabetes: a characterization study. *Drug Deliv Transl Res*. 2015 Oct;5(5):511-22.

Caution: Product has not been fully validated for medical applications. For research use only.

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