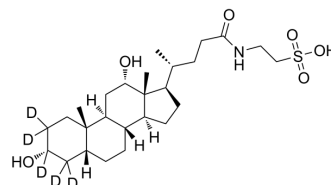


Taurodeoxycholic acid-d5

Cat. No.:	HY-B1899S
Molecular Formula:	C ₂₆ H ₄₀ D ₅ NO ₆ S
Molecular Weight:	504.73
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Taurodeoxycholic acid-d ₅ is the deuterium labeled Taurodeoxycholic acid (HY-B1899) ^[1] . Taurodeoxycholic acid, a bile acid, stabilizes the mitochondrial membrane, decreases free radical formation. Taurodeoxycholic acid inhibits apoptosis by blocking a calcium-mediated apoptotic pathway as well as caspase-12 activation. Taurodeoxycholic acid exhibits neuroprotective effect in 3-nitropropionic acid induced mouse model or genetic mouse model of Huntington's disease (HD) ^{[2][3][4][5]} .
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.

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

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