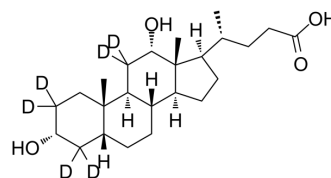


Deoxycholic acid-d₆

Cat. No.:	HY-N0593S2
Molecular Formula:	C ₂₄ H ₃₄ D ₆ O ₄
Molecular Weight:	398.61
Target:	G protein-coupled Bile Acid Receptor 1; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Deoxycholic acid-d ₆ is the deuterium labeled Deoxycholic acid. Deoxycholic acid is specifically responsible for activating the G protein-coupled bile acid receptor TGR5 that stimulates brown adipose tissue (BAT) thermogenic activity.
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]. Somm E, et al. β -Klotho deficiency protects against obesity through a crosstalk between liver, microbiota, and brown adipose tissue. *JCI Insight*. 2017 Apr 20;2(8). pii: 91809.
- [3]. Wang X, et al. Acidified bile acids enhance tumor progression and telomerase activity of gastric cancer in micedependent on c-Myc expression. *Cancer Med*. 2017 Apr;6(4):788-797.

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

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