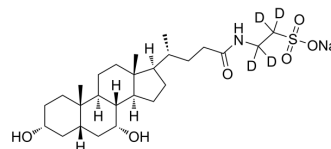


Taurochenodeoxycholic acid-d₄-1 sodium

Cat. No.:	HY-N1429S2
Molecular Formula:	C ₂₆ H ₄₀ D ₄ NNaO ₆ S
Molecular Weight:	525.71
Target:	Apoptosis; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Apoptosis; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Taurochenodeoxycholic acid-d ₄ -1 (sodium) is the deuterium labeled Taurochenodeoxycholic acid. Taurochenodeoxycholic acid (12-Deoxycholytaurine) sodium is one of the main bioactive substances of animals' bile acid. Taurochenodeoxycholic acid sodium induces apoptosis and shows obvious anti-inflammatory and immune regulation properties[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]. Liu M, et al. Effects of taurochenodeoxycholic acid on adjuvant arthritis in rats. *Int Immunopharmacol.* 2011 Dec;11(12):2150-8.
- [3]. Uchida A, et al. Taurochenodeoxycholic acid ameliorates and ursodeoxycholic acid exacerbates small intestinal inflammation. *Am J Physiol.* 1997 May;272(5 Pt 1):G1249-57.
- [4]. Wang X, et al. Taurochenodeoxycholic acid induces NR8383 cells apoptosis via PKC/JNK-dependent pathway. *Eur J Pharmacol.* 2016 Sep 5;786:109-15.
- [5]. Zhou C, et al. The effects of taurochenodeoxycholic acid in preventing pulmonary fibrosis in mice. *Pak J Pharm Sci.* 2013 Jul;26(4):761-5.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA