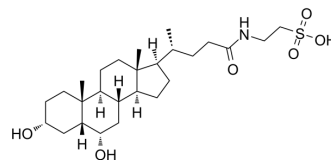


Taurohyodeoxycholic acid

Cat. No.:	HY-114360		
CAS No.:	2958-04-5		
Molecular Formula:	C ₂₆ H ₄₅ NO ₆ S		
Molecular Weight:	499.7		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (200.12 mM; Need ultrasonic)
 H₂O : 25 mg/mL (50.03 mM; ultrasonic and warming and adjust pH to 12 with NaOH and heat to 60°C)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0012 mL	10.0060 mL	20.0120 mL
	5 mM	0.4002 mL	2.0012 mL	4.0024 mL
	10 mM	0.2001 mL	1.0006 mL	2.0012 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: PBS
Solubility: 25 mg/mL (50.03 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.16 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (4.16 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.16 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Taurohyodeoxycholic acid is the tauroconjugated form of Hyodeoxycholic acid (HDCA, a dihydroxylated natural bile acid). Taurohyodeoxycholic acid induces a biliary phospholipid secretion and suggests a hepatoprotective potential. Taurohyodeoxycholic acid also can promote gallstone dissolution^{[1][1]}.

REFERENCES

- [1]. Roda A, et, al. Taurohyodeoxycholic acid protects against taurochenodeoxycholic acid-induced cholestasis in the rat. *Hepatology*. 1998 Feb;27(2):520-5.
- [2]. Carubbi F, et, al. Comparative cytotoxic and cytoprotective effects of taurohyodeoxycholic acid (THDCA) and tauroursodeoxycholic acid (TUDCA) in HepG2 cell line. *Biochim Biophys Acta*. 2002 Jan 30;1580(1):31-9.
-

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