Taurohyodeoxycholic acid sodium

Cat. No.: HY-114360A

CAS No.: 38411-85-7

Molecular Formula: $C_{26}H_{44}NNaO_6S$

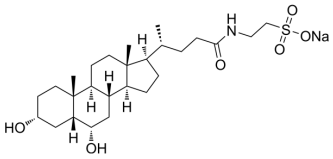
Molecular Weight: 522

Target: Interleukin Related; TNF Receptor

Pathway: Immunology/Inflammation; Apoptosis

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 62.5 mg/mL (119.73 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9157 mL	9.5785 mL	19.1571 mL
	5 mM	0.3831 mL	1.9157 mL	3.8314 mL
	10 mM	0.1916 mL	0.9579 mL	1.9157 mL

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

BIOLOGICAL ACTIVITY

Description

Taurohyodeoxycholic acid (THDCA) sodium is the taurine-conjugated form of the secondary bile acid hyodeoxycholic acid. Taurohyodeoxycholic acid can also reduce the activity and expression of myeloperoxidase TNF-α and IL-6, as well as colonic damage in TNBS-induced ulcerative colitis mouse model.

IC_{50} & Target	IL-6	TNFR1

In Vivo

Taurohyodeoxycholic acid reduces the size and weight of human gallstones in vitro. Taurohyodeoxycholic acid increases bile flow, bile cholesterol secretion and bile lipid secretion in rats. Co-administration of Taurohyodeoxycholic acid and Taurochenodeoxycholic acid prevented Taurohyodeoxycholic acid-induced hepatotoxicity and increased bile flow and bile acid and phospholipid secretion in rats.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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]. Angelico M, et al. Dissolution of human cholesterol gallstones in bile salt/lecithin mixtures: effect of bile salt hydrophobicity and various pHs. Scand J Gastroenterol. 1995 Dec;30(12):1178-85.

[3]. Angelico M, et al. Effect of taurohyodeoxycholic acid, a hydrophilic bile salt, on bile salt and biliary lipid secretion in the rat. Dig Dis Sci. 1994 Nov;39(11):2389-97.

[4]. Roda A, et al. Taurohyodeoxycholic acid protects against taurochenodeoxycholic acid-induced cholestasis in the rat. Hepatology. 1998 Feb;27(2):520-5.

[5]. Solmon Kusuma S, et al. Antineoplastic activity of monocrotaline against hepatocellular carcinoma[J]. Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal Chemistry-Anti-Cancer Agents), 2014, 14(9): 1237-1248.

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