

Taurocholic acid

Chemical Properties

CAS No. : 81-24-3

Formula: C₂₆H₄₅N₇O₇S

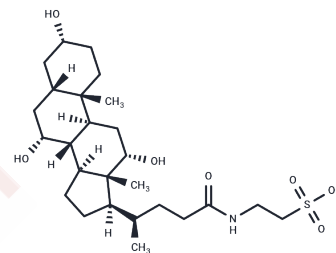
Molecular Weight: 515.7

Storage:

Keep away from moisture, Store under nitrogen, Store at low temperature

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Taurocholic acid (N-Choloyltaurine) is a bile acid involved in fat emulsification, possessing notable biological and immunomodulatory activities. It can inhibit bile duct injury induced by hepatic artery ligation by upregulating VEGF-A expression and protect cholangiocytes from TNF- α -induced damage via a PI3K-mediated pathway, and is commonly used to induce pancreatitis models.
Targets(IC50)	PI3K, TNF

Solubility Information

Solubility	H ₂ O: 103.13 mg/mL (199.98 mM), Sonication is recommended. DMSO: 148 mg/mL (286.99 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (7.76 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9391 mL	9.6956 mL	19.3911 mL
5 mM	0.3878 mL	1.9391 mL	3.8782 mL
10 mM	0.1939 mL	0.9696 mL	1.9391 mL
50 mM	0.0388 mL	0.1939 mL	0.3878 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mooranian A, et al. The effect of a tertiary bile acid, taurocholic acid, on the morphology and physical characteristics of microencapsulated probucol: potential applications in diabetes: a characterization study. *Drug Deliv Transl Res.* 2015;5(5):511-522.

Qiu Q, Guo G, Guo X, et al. P53 Deficiency Accelerate Esophageal Epithelium Intestinal Metaplasia Malignancy. *Biomedicines.* 2023, 11(3): 882.

Khatun Z, et al. Oral delivery of taurocholic acid linked heparin-docetaxel conjugates for cancer therapy. *J Control Release.* 2013;170(1):74-82.

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