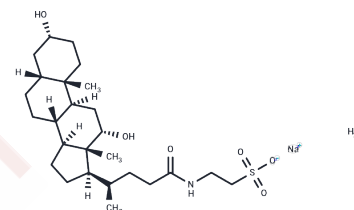


## Taurodeoxycholic acid sodium hydrate

## Chemical Properties

CAS No. :	110026-03-4
Formula:	C <sub>26</sub> H <sub>46</sub> NNaO <sub>7</sub> S
Molecular Weight:	539.70
Storage:	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	Taurodeoxycholic acid sodium hydrate (Sodium taurodeoxycholate monohydrate), a hydrophilic bile salt, influences bile salt and biliary lipid secretion in rats.
Targets(IC50)	Apoptosis,Caspase,Endogenous Metabolite,GPCR19
In vivo	At all infusion rates, taurohyodeoxycholic acid caused a greater (P < 0.001) secretion of biliary lecithin compared to the other bile salts. There were no significant differences in the biliary secretion of cholesterol and proteins. Electron microscopy showed the recruitment of vesicles and lamellar bodies around and within bile canaliculi. In conclusion, taurohyodeoxycholic promotes a biliary lecithin secretion greater than expected from physicochemical predictions, representing a novel secretory property with potential pharmacological relevance[1].

## Solubility Information

Solubility	DMSO: 262.5 mg/mL (486.38 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 (7.41 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

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	1mg	5mg	10mg
1 mM	1.8529 mL	9.2644 mL	18.5288 mL
5 mM	0.3706 mL	1.8529 mL	3.7058 mL
10 mM	0.1853 mL	0.9264 mL	1.8529 mL
50 mM	0.0371 mL	0.1853 mL	0.3706 mL

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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

Angelico M , Baiocchi L , Nistri A , et al. Effect of taurohyodeoxycholic acid, a hydrophilic bile salt, on bile salt and biliary lipid secretion in the rat[J]. Digestive Diseases & Sciences, 1994, 39(11):2389-2397.

Roda A , Piazza F , Baraldini M , et al. Taurohyodeoxycholic acid protects against taurochenodeoxycholic acid-induced cholestasis in the rat[J]. Hepatology, 1998, 27.

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