

## Taurohyodeoxycholic acid

## Chemical Properties

CAS No. : 2958-04-5

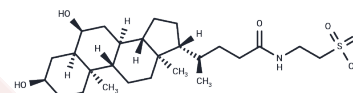
Formula: C<sub>26</sub>H<sub>45</sub>N<sub>0</sub>S<sub>1</sub>

Molecular Weight: 499.70

Store at low temperature

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	Taurohyodeoxycholic acid (THDCA) is a bile acid that plays a key role in regulating the hepatic inflammatory microenvironment. THDCA reduces the expression of TNF- $\alpha$ and IL-6 and inhibits the development of hepatocellular carcinoma (HCC). It is able to inhibit non-alcoholic fatty liver disease and regulate bile acid metabolism in combination with astragalus polysaccharides: it reduces CD36 expression in the liver and decreases hepatic lipid accumulation by up-regulating CYP7B1 and down-regulating CYP7A1.
Targets(IC50)	Glutathione Peroxidase, Endogenous Metabolite, COX, Cytochromes P450, IL Receptor, Interleukin, TNF

## Solubility Information

Solubility	DMSO: 125 mg/mL (250.15 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (20.01 mM), Solution. <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	2.0012 mL	10.006 mL	20.012 mL
5 mM	0.4002 mL	2.0012 mL	4.0024 mL
10 mM	0.2001 mL	1.0006 mL	2.0012 mL
50 mM	0.040 mL	0.2001 mL	0.4002 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

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

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.

Roda, A., Piazza, F., Baraldini, M., et al. Taurohyodeoxycholic acid protects against taurochenodeoxycholic acid-induced cholestasis in the rat *Hepatology* 27(2)520-525(1998)

He, J., Liang, J., Zhu, S., et al. Protective effect of taurohyodeoxycholic acid from *Pulvis Fellis Suis* on trinitrobenzene sulfonic acid induced ulcerative colitis in mice *Eur. J. Pharmacol.* 670(1)229-235(2011)

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