

## Tauroursodeoxycholate dihydrate

## Chemical Properties

CAS No. : 117609-50-4

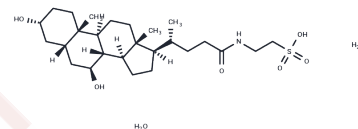
Formula: C<sub>26</sub>H<sub>49</sub>N<sub>0</sub>S<sub>2</sub>

Molecular Weight: 535.73

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	Tauroursodeoxycholate (TUDCA ,Taurolite) dihydrate is a water-soluble bile acid with endoplasmic reticulum stress inhibitory, mitochondrial stabilizing, and anti-apoptotic effects, which significantly reduces the expression of apoptotic molecules, such as Caspase-3 and Caspase-12, and inhibits ERK, reducing endoplasmic reticulum stress mediated cell death.
Targets(IC50)	Apoptosis,ERK,NF-κB,Akt,Caspase,Endogenous Metabolite,IRE1,JNK,ROS

## Solubility Information

Solubility	DMSO: 60 mg/mL (112 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: 2 mg/mL (3.73 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	1.8666 mL	9.3331 mL	18.6661 mL
5 mM	0.3733 mL	1.8666 mL	3.7332 mL
10 mM	0.1867 mL	0.9333 mL	1.8666 mL
50 mM	0.0373 mL	0.1867 mL	0.3733 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

Kim SY, et al. Tauroursodeoxycholate (TUDCA) inhibits neointimal hyperplasia by suppression of ERK via PKC $\alpha$ -mediated MKP-1 induction. *Cardiovasc Res.* 2011 Nov 1;92(2):307-16.

Qin Y, et al. Tauroursodeoxycholic Acid Attenuates Angiotensin II Induced Abdominal Aortic Aneurysm Formation in Apolipoprotein E-deficient Mice by Inhibiting Endoplasmic Reticulum Stress. *Eur J Vasc Endovasc Surg.* 2017 Mar; 53(3):337-345.

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