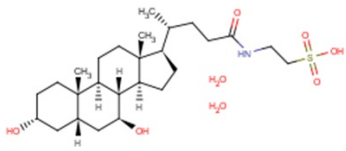
Data Sheet (Cat.No.T16998)

TargetMol
A DRUG SCREENING EXPERT

Tauroursodeoxycholate dihydrate

Chemical Properties



CAS No.:	117609-50-4
Formula:	C26H49NO8S
Molecular Weight:	535.73
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Tauroursodeoxycholate dihydrate is an endoplasmic reticulum stress inhibitor. Tauroursodeoxycholate also inhibits ERK. Tauroursodeoxycholate significantly decreases the expression of apoptosis molecules, such as caspase-3 and caspase-12.
Targets(IC_{50})	ERK: None Caspase-3: None Caspase-12: None

Solubility Information

Solubility	DMSO: 83.33 mg/mL (155.54 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.867 mL	9.333 mL	18.666 mL
5 mM	0.373 mL	1.867 mL	3.733 mL
10 mM	0.187 mL	0.933 mL	1.867 mL
50 mM	0.037 mL	0.187 mL	0.373 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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