

Product Data Sheet

Product Name: Tauroursodeoxycholate dihydrate

Cat. No.: GC34831

Chemical Properties

Cas. No. 117609-50-4

SMILES C[C@H](CCC(NCCS(=O)(O)=O)=O)[C@H]1CC[C@@]2([H])[C@]3([H])[C@@H](O)C[C@]4([H])C[C@H](O)CC[C@]4(C)[C@@]3([H])CC[C@]12C.O.O

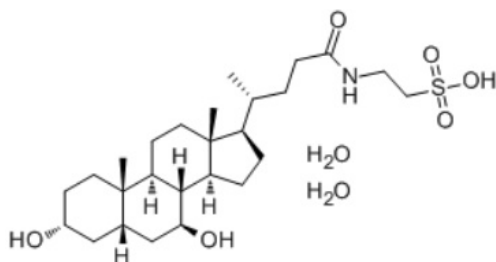
Formula $C_{26}H_{49}NO_8S$ M.Wt 535.73

Solubility DMSO : 83.33 mg/mL (155.54 mM) Storage Store at -20°C
,Water:12.5mg/mL(25.02 mM)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Tauroursodeoxycholate dihydrate (TUDCA dihydrate; UR 906 dihydrate; Taurolite dihydrate) is an endoplasmic reticulum (ER) stress inhibitor. Tauroursodeoxycholate significantly reduces expression of apoptosis molecules, such as caspase-3 and caspase-12. Tauroursodeoxycholate also inhibits ERK[1][2]. ERK[1]Caspase-3, Caspase-12[2]

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Kim SY, et al. Tauroursodeoxycholate (TUDCA) inhibits neointimal hyperplasia by suppression of ERK via PKC α -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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