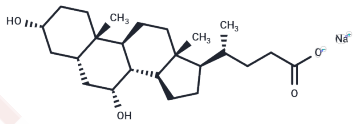
Data Sheet (Cat.No.T65070)

TargetMol

Chenodeoxycholic Acid sodium salt

Chemical Properties



CAS No. : 2646-38-0

Formula: C24H39NaO4

Molecular Weight: 414.55

Storage: Store at low temperature
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	Chenodeoxycholic Acid sodium salt (CDCA sodium salt) is a bile acid in humans that activates the nuclear receptor FXR, rescues axonal degeneration of induced pluripotent stem cell-derived neurons in patients with spastic paraplegia type 5 and cerebral xanthomatosis, and can be used to study pancreatic necrosis.
Targets(IC50)	FXR,Endogenous Metabolite,Autophagy

Solubility Information

Solubility	DMSO: 252.5 mg/mL (609.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (24.12 mM),Solution. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4123 mL	12.0613 mL	24.1225 mL
5 mM	0.4825 mL	2.4123 mL	4.8245 mL
10 mM	0.2412 mL	1.2061 mL	2.4123 mL
50 mM	0.0482 mL	0.2412 mL	0.4825 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

Stauffer AT, et al. Chenodeoxycholic acid and deoxycholic acid inhibit 11 beta-hydroxysteroid dehydrogenase type 2 and cause cortisol-induced transcriptional activation of the mineralocorticoid receptor. J Biol Chem. 2002 Jul 19; 277(29):26286-92.

Noh K, Kim YM, Kim YW, Kim SG. Farnesoid X receptor activation by chenodeoxycholic acid induces detoxifying enzymes through AMP-activated protein kinase and extracellular signal-regulated kinase 1/2-mediated phosphorylation of CCAAT/enhancer binding protein β. Drug Metab Dispos. 2011 Aug;39(8):1451-9.

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