

3-Epideoxycholic Acid

Chemical Properties

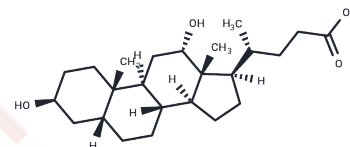
CAS No. : 570-63-8

Formula: C₂₄H₄₀O₄

Molecular Weight: 392.57

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	3-Epideoxycholic Acid is a secondary bile acid, a microbial metabolite of Deoxycholic acid. It targets the FXR receptor on dendritic cells, reducing their immunostimulatory properties, increasing Foxp3 induction, and promoting the generation of regulatory T cells (Tregs), thereby exhibiting anti-inflammatory activity.
Targets(IC50)	FXR,Endogenous Metabolite

Solubility Information

Solubility	DMSO: 200 mg/mL (509.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5473 mL	12.7366 mL	25.4732 mL
5 mM	0.5095 mL	2.5473 mL	5.0946 mL
10 mM	0.2547 mL	1.2737 mL	2.5473 mL
50 mM	0.0509 mL	0.2547 mL	0.5095 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

Campbell C, et al., Bacterial metabolism of bile acids promotes generation of peripheral regulatory T cells. Nature. 2020 May;581(7809):475-479.

Devlin AS, et al., A biosynthetic pathway for a prominent class of microbiota-derived bile acids. Nat Chem Biol. 2015 Sep;11(9):685-90.

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