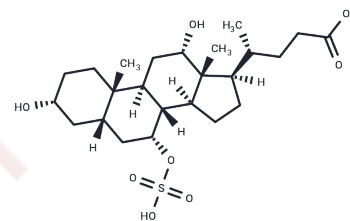


Cholic Acid 7-sulfate

Chemical Properties

CAS No. :	60320-05-0
Formula:	C ₂₄ H ₄₀ O ₈ S
Molecular Weight:	488.64
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	Cholic acid 7-sulfate is a metabolite of the primary bile acid cholic acid.[1],[2] It is produced by conjugation of a sulfate group with the hydroxy group at position 7 of cholic acid in the liver and gut. Fecal levels of cholic acid 7-sulfate are increased in male, but not female, mice fed a diet supplemented with cholic acid or chenodeoxycholic acid.[2]
Targets(IC50)	Others, GPCR19, MHC

Solubility Information

Solubility	DMSO: 0.3 mg/mL (0.61 mM), Sonication is recommended. DMF: 1 mg/mL (2.05 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	2.0465 mL	10.2325 mL	20.465 mL
5 mM	0.4093 mL	2.0465 mL	4.093 mL
10 mM	0.2046 mL	1.0232 mL	2.0465 mL
50 mM	0.0409 mL	0.2046 mL	0.4093 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

Alnouti, Y. Bile acid sulfation: A pathway of bile acid elimination and detoxification. *Toxicological Sciences* 108(2), 225-246 (2009).

Zhang, Y., and Klaassen, C.D. Effects of feeding bile acids and a bile acid sequestrant on hepatic bile acid composition in mice. *J. Lipid Res.* 51(11), 3230-3242 (2010).

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