

12-Ketochenodeoxycholic acid

Chemical Properties

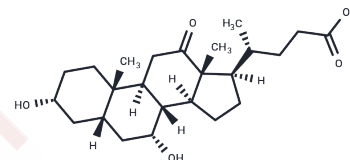
CAS No. : 2458-08-4

Formula: C₂₄H₃₈O₅

Molecular Weight: 406.56

Storage: Store at low temperature, Keep away from moisture
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	12-Ketochenodeoxycholic acid 12 is a direct precursor of cholodeoxycholic acid (CDCA). 12-Ketochenodeoxycholic acid 12 supports bile acid biosynthesis studies since CDCA is used to dissolve cholesterol gallstones and exhibits chemotherapeutic properties, enabling scientific investigation into bile acid metabolism, gallstone dissolution pathways, and hepatobiliary disease intervention mechanisms with enhanced experimental applicability and translational value.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 80 mg/mL (196.77 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	2.4597 mL	12.2983 mL	24.5966 mL
5 mM	0.4919 mL	2.4597 mL	4.9193 mL
10 mM	0.246 mL	1.2298 mL	2.4597 mL
50 mM	0.0492 mL	0.246 mL	0.4919 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

Sawada, H. et al. Microbial production of chenodeoxycholic acid precursor, 12-ketochenodeoxycholic acid, from dehydrocholic acid. European Journal of Applied Microbiology and Biotechnology, 10(1-2), 107-112.

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