Data Sheet (Cat.No.T19124)

TargetMol

3-Oxocholic acid

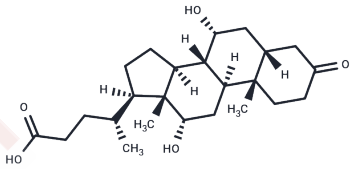
Chemical Properties

CAS No. : 2304-89-4

Formula: C24H38O5

Molecular Weight: 406.56

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-Oxocholic acid(3-Ketocholic acid) is the metabolite of bile acid and the main product of bile degradation by Clostridium perfringens in the intestine.3-Oxocholic acid is a steroid acid mainly found in the bile of mammals.
Targets(IC50)	Endogenous Metabolite
In vivo	Male Goto-Kakizaki (GK) rats underwent Ileal Transposition (IT) surgery, resulting in increased levels of 3-Oxocholic acid in IT rats compared to Sham-IT rats, as revealed by metabolomics analysis [1].

Solubility Information

Solubility	DMSO: 90 mg/mL (221.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

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

Yan K, et al. The Changes of Serum Metabolites in Diabetic GK Rats after Ileal Transposition Surgery. Obes Surg. 2019 Mar;29(3):882-890.
Macdonald I, et al. Identification of 7alpha-, 12alpha-dihydroxy-3-oxo cholanoic acid as the major degradation product from cholic by C. perfringens. J Steroid Biochem. 1978 Apr;9(4):353-8.
Wahlström A, et al. Intestinal Crosstalk between Bile Acids and Microbiota and Its Impact on Host Metabolism. Cell Metab. 2016 Jul 12;24(1):41-50.

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