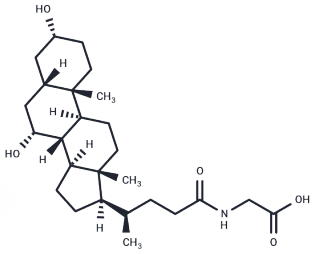
Data Sheet (Cat.No.T4588)

TargetMol

Glycochenodeoxycholic Acid

Chemical Properties



CAS No. : 640-79-9

Formula: C26H43NO5

Molecular Weight: 449.62

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	Glycochenodeoxycholic Acid (Lithocholylglycine) is a glycine conjugate of lithocholic acid, a bile acid. It is increased in livers of mice that are fed diets supplemented with ursadeoxycholic acid. Glycolithocholic acid levels are decreased in lean mice treated with obestatin. Serum glycolithocholic acid levels increase with age in children.
Targets(IC50)	Apoptosis,Caspase,Endogenous Metabolite,STAT,Bcl-6,Interleukin

Solubility Information

Solubility	H2O: Insoluble, DMSO: 142 mg/mL (315.82 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (8.9 mM),Sonication is recommended. *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	2.2241 mL	11.1205 mL	22.241 mL
5 mM	0.4448 mL	2.2241 mL	4.4482 mL
10 mM	0.2224 mL	1.1121 mL	2.2241 mL
50 mM	0.0445 mL	0.2224 mL	0.4448 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

Kuipers F, Derksen JP, Gerding A, Scherphof GL, Vonk RJ. Biliary lipid secretion in the rat. The uncoupling of biliary cholesterol and phospholipid secretion from bile acid secretion by sulfated glycolithocholic acid. Biochim Biophys Acta. 1987 Nov 21;922(2):136-44.

Qiu Q, Guo G, Guo X, et al.P53 Deficiency Accelerate Esophageal Epithelium Intestinal Metaplasia Malignancy. Biomedicines.2023, 11(3): 882.

Kuipers F, Hardonk MJ, Vonk RJ, van der Meer R. Bile secretion of sulfated glycolithocholic acid is required for its cholestatic action in rats. Am J Physiol. 1992 Feb;262(2 Pt 1):G267-73.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481