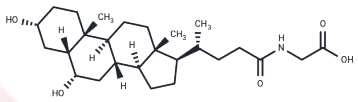
Data Sheet (Cat.No.T8153)

TargetMol

glycohyodeoxycholic acid

Chemical Properties



CAS No. : 13042-33-6

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	glycohyodeoxycholic acid is a major metabolite of the secondary bile acid hyodeoxycholic acid in humans.
Targets(IC50)	Endogenous Metabolite
In vivo	Glycohyodeoxycholic acid supplementation in prairie dogs fed a lithogenic diet decreases the frequency of cholesterol crystals in the gallbladder and inhibits the activity of cholesterol 7α-hydroxylase[1]

Solubility Information

Solubility	DMSO: 250 mg/mL (556.03 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: 2 mg/mL (4.45 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

Mcsherry C K , Mosbach E H , Cohen B I , et al. Hyodeoxycholic acid: A new approach to gallstone prevention[J]. The American Journal of Surgery, 1985, 149(1):126-132.

Sacquet E , Parquet M , Riottot M , et al. Intestinal absorption, excretion, and biotransformation of hyodeoxycholic acid in man[J]. Journal of Lipid Research, 1983, 24(5):604-613.