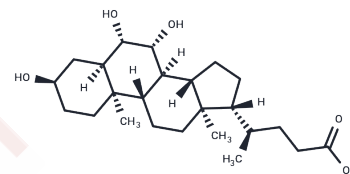


β -Muricholic Acid

Chemical Properties

CAS No. :	2393-59-1
Formula:	C ₂₄ H ₄₀ O ₅
Molecular Weight:	408.57
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	β -Muricholic acid (β -MCA) is a murine-specific primary bile acid.[1],[2] Dietary administration of β -MCA reduces HMG-CoA reductase activity in liver microsomes from mice fed a high cholesterol and cholic acid diet.[3] Dietary administration of β -MCA also dissolves 100% of gallstones in a gallstone-susceptible mouse model of diet-induced cholesterol gallstones.[4]
Targets(IC50)	Others,Endogenous Metabolite

Solubility Information

Solubility	Ethanol: 20 mg/mL (48.95 mM),Sonication is recommended. DMSO: 20 mg/mL (48.95 mM),Sonication is recommended. DMF: 30 mg/mL (73.43 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 (4.9 mM),Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4476 mL	12.2378 mL	24.4756 mL
5 mM	0.4895 mL	2.4476 mL	4.8951 mL
10 mM	0.2448 mL	1.2238 mL	2.4476 mL
50 mM	0.049 mL	0.2448 mL	0.4895 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

- Eyssen, H.J., Parmentier, G.G., and Mertens, J.A. Sulfate bile acids in germ-free and conventional mice. *Eur. J. Biochem.* 66(3), 507-514 (1976).
- Wahlström, A., Sayin, S.I., Marschall, H.-I., et al. Intestinal crosstalk between bile acids and microbiota and its impact on host metabolism. *Cell Metab.* 24(1), 41-50 (2016).
- Fujino, Y., Nakayama, K., Yoshimura, K., et al. Suppression of hepatic HMG-CoA reductase activity by β -muricholic acid in mice fed a diet containing cholesterol and cholic acid. *Jpn. J. Pharmacol.* 46(4), 421-423 (1988).
- Wang, D.Q.-H., and Tazuma, S. Effect of β -muricholic acid on the prevention and dissolution of cholesterol gallstones in C57L/J mice. *J. Lipid. Res.* 43(11), 1960-1968 (2002).

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