

Murideoxycholic Acid

Chemical Properties

CAS No. : 668-49-5

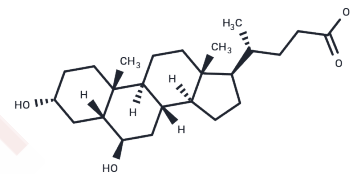
Formula: C₂₄H₄₀O₄

Molecular Weight: 392.57

Store at low temperature

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	Murideoxycholic Acid alleviates non-alcoholic fatty liver disease by modulating the enterohepatic axis.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMF: 30 mg/mL (76.42 mM),Sonication is recommended. Ethanol: 20 mg/mL (50.95 mM),Sonication is recommended. DMSO: 20 mg/mL (50.95 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	2.5473 mL	12.7366 mL	25.4732 mL
5 mM	0.5095 mL	2.5473 mL	5.0946 mL
10 mM	0.2547 mL	1.2737 mL	2.5473 mL
50 mM	0.0509 mL	0.2547 mL	0.5095 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

Khallou J, et al. Metabolism and time-course excretion of murideoxycholic acid, a 6 beta-hydroxylated bile acid, in humans. *J Hepatol.* 1993;17(3):364-372.

Bullich-Vilarrubias C, Romaní-Pérez M, López-Almela I, Rubio T, García CJ, Tomás-Barberán FA, Sanz Y. Nav1.8-expressing neurons control daily oscillations of food intake, body weight and gut microbiota in mice. *Commun Biol.* 2024 Feb 22;7(1):219.

Kuang J, Wang J, Li Y, Li M, Zhao M, Ge K, Zheng D, Cheung KCP, Liao B, Wang S, Chen T, Zhang Y, Wang C, Ji G, Chen P, Zhou H, Xie C, Zhao A, Jia W, Zheng X, Jia W. Hyodeoxycholic acid alleviates non-alcoholic fatty liver disease through modulating the gut-liver axis. *Cell Metab.* 2023 Oct 3;35(10):1752-1766.e8.

Shen S, Huang D, Qian S, Ye X, Zhuang Q, Wan X, Dong Z. Hyodeoxycholic acid attenuates cholesterol gallstone formation via modulation of bile acid metabolism and gut microbiota. *Eur J Pharmacol.* 2023 Sep 15;955:175891.

Li J, Chen Y, Li R, Zhang X, Chen T, Mei F, Liu R, Chen M, Ge Y, Hu H, Wei R, Chen Z, Fan H, Zeng Z, Deng Y, Luo H, Hu S, Cai S, Wu F, Shi N, Wang Z, Zeng Y, Xie M, Jiang Y, Chen Z, Jia W, Chen P. Gut microbial metabolite hyodeoxycholic acid targets the TLR4/MD2 complex to attenuate inflammation and protect against sepsis. *Mol Ther.* 2023 Apr 5;31(4):1017-1032.

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