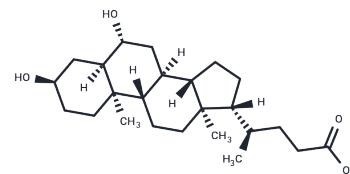


Murideoxycholic Acid

Chemical Properties

CAS No. :	668-49-5
Formula:	C ₂₄ H ₄₀ O ₄
Molecular Weight:	392.57
Appearance:	no data available
Storage:	store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Murideoxycholic acid (MDCA) is a secondary bile acid produced from α -muricholic acid and β -muricholic acid.[1] It is also a metabolite of lithocholic acid in liver S9 fractions from humans and other species.[2] MDCA prevents gallstone formation in hamsters fed a lithogenic diet but does not resolve gallstones in prairie dogs fed a high cholesterol diet.[3],[4] Gallstones formed during MDCA administration after a high cholesterol diet are comprised of an insoluble calcium salt of murideoxycholyl taurine.[4] In humans, MDCA is rapidly absorbed and is metabolized as an endogenous bile acid with a half-life of approximately 3.5 days.[5]
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Solubility Information

Solubility	DMF: 30 mg/mL Ethanol: 20 mg/mL DMSO: 20 mg/mL (< 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.

Reference

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).

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