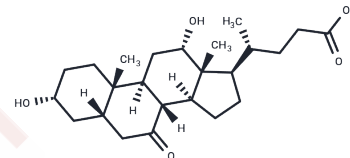


7-keto-deoxycholic acid

Chemical Properties

CAS No. :	911-40-0
Formula:	C ₂₄ H ₃₈ O ₅
Molecular Weight:	406.56
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	7-keto-deoxycholic acid is converted from Lactobacillus and Bifidobacterium with specific condition and from cholic acid in vitro.
Targets(IC50)	Others, Drug Metabolite
In vitro	Under anaerobic incubation, Eubacterium lentum-like c-25 converts 3.7% of cholic acid (2 mM) to 7-keto-deoxycholic acid and 1.1% cholic acid (150 mg/mL) to 7-keto-deoxycholic acid[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (245.97 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: 10 mg/mL (24.6 mM), Solution. <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	2.4597 mL	12.2983 mL	24.5966 mL
5 mM	0.4919 mL	2.4597 mL	4.9193 mL
10 mM	0.246 mL	1.2298 mL	2.4597 mL
50 mM	0.0492 mL	0.246 mL	0.4919 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

- Takahashi T, et al. Absence of cholic acid 7 alpha-dehydroxylase activity in the strains of Lactobacillus and Bifidobacterium. J Dairy Sci. 1994 Nov;77(11):3275-86.
- Sutherland JD, et al. The metabolism of primary, 7-oxo, and 7 beta-hydroxy bile acids by Clostridium absonum. J Lipid Res. 1982 Jul;23(5):726-32.
- Morotomi M, Kawai Y, Mutai M. Intestinal microflora and bile acids. In vitro cholic acid transformation by mixed fecal culture of rats. Microbiol Immunol. 1979;23(9):839-47.

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