## Ursocholic acid

MedChemExpress

Cat. No.:	HY-113212		
CAS No.:	2955-27-3		
Molecular Formula:	$C_{24}H_{40}O_{5}$		
Molecular Weight:	408.57		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (244.76 mM; Need ultrasonic) H <sub>2</sub> O : < 0.1 mg/mL (insoluble)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		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		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution						

Description	Ursocholic acid, a bile acid found predominantly in bile of mammals, is transformed into deoxycholic acid by the inter microflora in mice. Ursodeoxycholic acid is an inhibitor of 7α-hydroxysteroid dehydrogenase and hepatocyte nuclear 1α <sup>[1]</sup> .
IC <sub>50</sub> & Target	Human Endogenous Metabolite

# Product Data Sheet

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### REFERENCES

[1]. MacDonald IA, et al. Formation of ursodeoxycholic acid from chenodeoxycholic acid by a 7 beta-hydroxysteroid dehydrogenase-elaborating Eubacterium aerofaciens strain cocultured with 7 alpha-hydroxysteroid dehydrogenase-elaborating organisms. Appl Environ Microbiol. 1982 Nov;44(5):1187-95.

[2]. Lee HI, et al. Ursodeoxycholic acid, an inhibitor of hepatocyte nuclear factor 1α, did not increase the systemic exposure of pitavastatin. Int J Clin Pharmacol Ther. 2014 Nov;52(11):981-5.

#### Caution: Product has not been fully validated for medical applications. For research use only.

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