Cholestenone

Cat. No.:	HY-113365				
CAS No.:	601-57-0				
Molecular Formula:	C ₂₇ H ₄₄ O				
Molecular Weight:	384.64				
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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In Vitro	Ethanol : 50 mg/mL (129.99 mM; Need ultrasonic) DMSO : 2 mg/mL (5.20 mM; ultrasonic and warming and heat to 60°C)							
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg			
		1 mM	2.5998 mL	12.9992 mL	25.9983 mL			
	5 mM	0.5200 mL	2.5998 mL	5.1997 mL				
	10 mM	0.2600 mL	1.2999 mL	2.5998 mL				
	Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent of Solubility: ≥ 2.5 m	1. Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.50 mM); Clear solution						
	2. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.50 mM); Suspended solution; Need ultrasonic							
	 Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.50 mM); Clear solution 							

Product Data Sheet

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REFERENCES

[1]. Rosenheim O, et al. The mechanism of coprosterol formation in vivo: 1. Cholestenone as an intermediate. Biochem J. 1943 Oct;37(4):513-4.

[2]. Neuvonen M, et, al. Enzymatic oxidation of cholesterol: properties and functional effects of cholestenone in cell membranes. PLoS One. 2014 Aug 26;9(8):e103743.

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

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