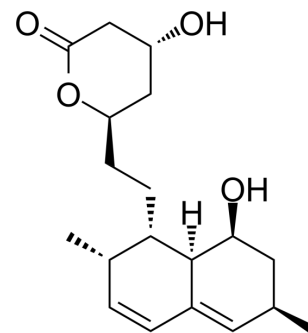


Monacolin J

Cat. No.:	HY-104051	
CAS No.:	79952-42-4	
Molecular Formula:	C ₁₉ H ₂₈ O ₄	
Molecular Weight:	320.42	
Target:	HMG-CoA Reductase (HMGCR); Autophagy	
Pathway:	Metabolic Enzyme/Protease; Autophagy	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (312.09 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions			1 mg	5 mg
		1 mM		3.1209 mL	15.6045 mL
		5 mM		0.6242 mL	3.1209 mL
	10 mM		0.3121 mL	1.5605 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 (7.80 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.80 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Monacolin J is an inhibitor of cholesterol biosynthesis, and inhibits the activity of HMG-CoA reductase.
IC₅₀ & Target	HMG-CoA reductase ^[1]
In Vitro	Monacolin J is an inhibitor of cholesterol biosynthesis, and inhibits the activity of HMG-CoA reductase. Na salt of Monacolin J causes 50% inhibition on reductase at 1.2 μg/mL ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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