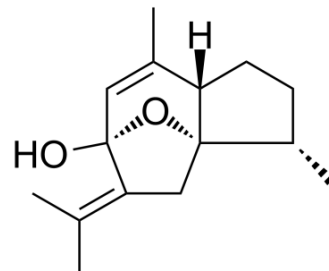


Curcumenol

Cat. No.:	HY-N2259		
CAS No.:	19431-84-6		
Molecular Formula:	C ₁₅ H ₂₂ O ₂		
Molecular Weight:	234.33		
Target:	Cytochrome P450		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (533.44 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	4.2675 mL	21.3374 mL	42.6749 mL
	5 mM	0.8535 mL	4.2675 mL	8.5350 mL
	10 mM	0.4267 mL	2.1337 mL	4.2675 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (8.88 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.88 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.88 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Curcumenol ((+)-Curcumenol) is a potent CYP3A4 inhibitor with an IC ₅₀ of 12.6 μM, which is one of constituents in the plants of medicinally important genus of Curcuma zedoaria, with neuroprotection, anti-inflammatory, anti-tumor and hepatoprotective activities. Curcumenol ((+)-Curcumenol) suppresses Akt-mediated NF-κB activation and p38 MAPK signaling pathway in LPS-stimulated BV-2 microglial cells ^{[1][2]} .
IC₅₀ & Target	IC ₅₀ 12.6 μM (CYP3A4) ^[1]

REFERENCES

- [1]. Sun DX, et al. Inhibitory effects of curcumenol on human liver cytochrome P450 enzymes. *Phytother Res.* 2010 Aug;24(8):1213-6.
- [2]. Lo JY, et al. Curcumenol isolated from *Curcuma zedoaria* suppresses Akt-mediated NF- κ B activation and p38 MAPK signaling pathway in LPS-stimulated BV-2 microglial cells. *Food Funct.* 2015 Nov;6(11):3550-9.
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Caution: Product has not been fully validated for medical applications. For research use only.