Cinchonidine

Cat. No.:	HY-N0173	//11
CAS No.:	485-71-2	// .
Molecular Formula:	C ₁₉ H ₂₂ N ₂ O	
Molecular Weight:	294.39	
Target:	Serotonin Transporter; Parasite	
Pathway:	Neuronal Signaling; Anti-infection	
Storage:	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under	
	nitrogen)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (113.22 mM; Need ultrasonic)						
I	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	3.3969 mL	16.9843 mL	33.9685 mL		
		5 mM	0.6794 mL	3.3969 mL	6.7937 mL		
		10 mM	0.3397 mL	1.6984 mL	3.3969 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 (8.49 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.49 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.49 mM); Clear solution						

BIOEOGICAEMENT					
Description	Cinchonidine (α-Quinidine) is a cinchona alkaloid found in Cinchona officinalis and Gongronema latifolium. A building block used in asymmetric synthesis in organic chemistry. Weak inhibitor of serotonin transporter (SERT) with K _i s of 330, 4.2, 36, 196, 15 μM for dSERT, hSERT, hSERT I172M, hSERT S438T, hSERT Y95F, respectively. Antimalarial activities ^[1] .				
IC ₅₀ & Target	Plasmodium				
In Vitro	Cinchonidine (α-Quinidine) is a cinchona alkaloid found in Cinchona officinalis and Gongronema latifolium. A building block used in asymmetric synthesis in organic chemistry. Weak inhibitor of serotonin transporter (SERT) with K _i s of 330, 4.2, 36,				

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196, 15 μM for dSERT, hSERT, hSERT I172M, hSERT S438T, hSERT Y95F, respectively $^{[1]}$.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Beckman ML, et al. Stereoselective inhibition of serotonin transporters by antimalarial compounds. Neurochem Int. 2014 Jul;73:98-106.

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

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