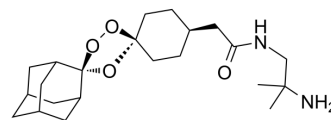


Arterolane

Cat. No.:	HY-10852
CAS No.:	664338-39-0
Molecular Formula:	C ₂₂ H ₃₆ N ₂ O ₄
Molecular Weight:	392.53
Target:	Parasite
Pathway:	Anti-infection
Storage:	-20°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 : 100 mg/mL (254.76 mM; Need ultrasonic)					
		Solvent Concentration	Mass			
	Preparing Stock Solutions			1 mg	5 mg	10 mg
		1 mM		2.5476 mL	12.7379 mL	25.4758 mL
		5 mM		0.5095 mL	2.5476 mL	5.0952 mL
	10 mM		0.2548 mL	1.2738 mL	2.5476 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: ≥ 1.67 mg/mL (4.25 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (4.25 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (4.25 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Arterolane is an antimalarial agent, with IC ₅₀ of both 1.1 nM against P. falciparum Ro73 and W2, respectively.
IC₅₀ & Target	IC ₅₀ : 1.1 nM (P. falciparum Ro73), 1.1 nM (P. falciparum W2) ^[1]
In Vitro	Arterolane (Trioxolane 7; OZ277; RBx-11160) is an antimalarial agent, with IC ₅₀ s of both 1.1 nM (0.43 ng/mL) against P. falciparum Ro73 and W2, respectively. Arterolane also shows inhibitory activity against several other P. falciparums, with IC ₅₀ s of 1.0, 1.6, 0.90, 0.91, 1.4, 1.5, 0.83, and 0.84 ng/mL for P. falciparum K1, Fc27, FVO, NF54, HB3, FCB1, ITG2-F6, and MAD20, respectively ^[1] .

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

REFERENCES

[1]. Vennerstrom JL, et al. Identification of an antimalarial synthetic trioxolane drug development candidate. Nature. 2004 Aug 19;430(7002):900-4.

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

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