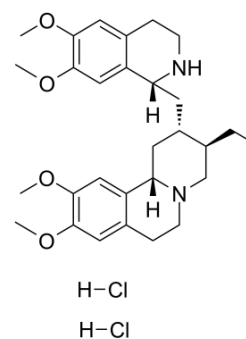


Emetine dihydrochloride

Cat. No.:	HY-B1479A		
CAS No.:	316-42-7		
Molecular Formula:	C ₂₉ H ₄₂ Cl ₂ N ₂ O ₄		
Molecular Weight:	553.56		
Target:	Parasite; Autophagy		
Pathway:	Anti-infection; Autophagy		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (90.32 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.8065 mL	9.0324 mL	18.0649 mL
		5 mM	0.3613 mL	1.8065 mL	3.6130 mL
	10 mM	0.1806 mL	0.9032 mL	1.8065 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 (4.52 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.52 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Emetine (dihydrochloride) is an anti-protozoal drug previously used for intestinal and tissue amoebiasis ^[1] .
IC ₅₀ & Target	Parasite ^[1]
In Vitro	Emetine (dihydrochloride) potent inhibits the multidrug resistant K1 strain of P. falciparum with an IC ₅₀ of 47 nM ^[1] .

REFERENCES

[1]. Matthews H, et al. Drug repositioning as a route to anti-malarial drug discovery: preliminary investigation of the in vitro anti-malarial efficacy of emetine dihydrochloride hydrate. Malar J. 2013 Oct 9;12:359.

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

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