Dehydroemetine

Cat. No.: HY-121241

CAS No.: 4914-30-1

Molecular Formula: $C_{29}H_{38}N_2O_4$

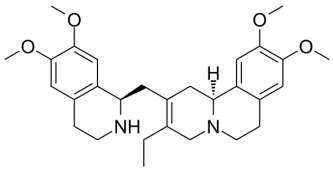
Molecular Weight: 478.62

Target: Parasite

Pathway: Anti-infection

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 : 50 mg/mL (104.47 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0893 mL	10.4467 mL	20.8934 mL
	5 mM	0.4179 mL	2.0893 mL	4.1787 mL
	10 mM	0.2089 mL	1.0447 mL	2.0893 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 (5.22 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.22 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dehydroemetine, a synthetic analogue of emetine dihydrochloride, is used for visceral leishmaniasis. Dehydroemetine used for anti-parasites[1].

REFERENCES

[1]. Fouarge M, et al.Development of dehydroemetine nanoparticles for the treatment of visceral leishmaniasis.J Microencapsul. 1989 Jan-Mar;6(1):29-34.

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

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