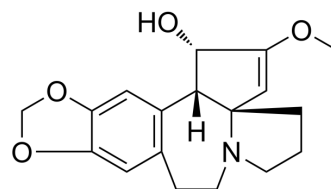


Cephalotaxine

Cat. No.:	HY-N0838		
CAS No.:	24316-19-6		
Molecular Formula:	C ₁₈ H ₂₁ NO ₄		
Molecular Weight:	315.36		
Target:	Flavivirus		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (79.27 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.1710 mL	15.8549 mL	31.7098 mL
		5 mM	0.6342 mL	3.1710 mL	6.3420 mL
10 mM		0.3171 mL	1.5855 mL	3.1710 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 (7.93 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.93 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.93 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Cephalotaxen ((-)-Cephalotaxine) is an alkaloid that can be isolated from <i>Cephalotaxus fortunei</i> , with antileukemic and antiviral activities. Cephalotaxen has anti-ZIKV (Zika virus) activity ^{[1][2][3]} .
IC ₅₀ & Target	ZIKV ^[3]
In Vitro	Cephalotaxine inhibits Zika infection by impeding viral replication and stability ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Wang DZ, et al. Studies on the alkaloids of Cephalotaxus. IX. Semi-synthesis of cephalotaxine esters and their anti-leukemic activity Yao Xue Xue Bao. 1992;27(3):178-84.
- [2]. Efferth T, et al. Molecular modes of action of cephalotaxine and homoharringtonine from the coniferous tree Cephalotaxus hainanensis in human tumor cell lines. Naunyn Schmiedebergs Arch Pharmacol. 2003 Jan;367(1):56-67.
- [3]. Zheng-Zong Lai, et al. Cephalotaxine inhibits Zika infection by impeding viral replication and stability. Biochem Biophys Res Commun. 2020 Feb 19; 522(4): 1052–1058.
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Caution: Product has not been fully validated for medical applications. For research use only.

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