Data Sheet (Cat.No.T10835L1)



Cletoquine hydrochloride

Chemical Properties

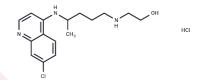
CAS No.: 159358-29-9

Formula: C16H23Cl2N3O

Molecular Weight: 344.28

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Cletoquine hydrochloride is a major active metabolite of Hydroxychloroquine. Cletoquine hydrochloride is a Chloroquine derivative and exhibits the ability to against the chikungunya virus (CHIKV). Cletoquine hydrochloride exhibits antimalarial effects.
Targets(IC50)	Influenza Virus,Parasite
In vivo	Hydroxychloroquine (5 mg/kg; intravenously) is administered to BALB/c mice for blood and tissue to determine the content of Cletoquine. The tissue to blood concentration ratio (Kp) is ≥1, indicating accumulation of Cletoquine in tissues. The Cletoquine Kp ratio for the various tissues are observed of liver (114.3)>kidney (24.4)>spleen (19.3)>lungs (16.5)>heart (5.5)[3].

Solubility Information

Solubility	DMSO: 4 mg/mL (11.62 mM)	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9046 mL	14.5231 mL	29.0461 mL
5 mM	0.5809 mL	2.9046 mL	5.8092 mL
10 mM	0.2905 mL	1.4523 mL	2.9046 mL
50 mM	0.0581 mL	0.2905 mL	0.5809 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Kumar M, et al. Molecular docking studies of chloroquine and its derivatives against P23pro-zbd domain of chikungunya virus: Implication in designing of novel therapeutic strategies. J Cell Biochem. 2019 Oct;120(10):

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