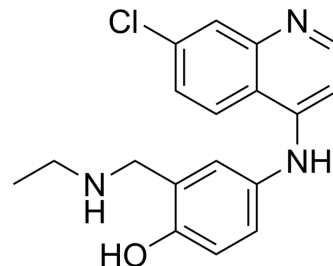


N-Desethyl amodiaquine

Cat. No.:	HY-128554		
CAS No.:	79352-78-6		
Molecular Formula:	C ₁₈ H ₁₈ ClN ₃ O		
Molecular Weight:	327.81		
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 : 100 mg/mL (305.05 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0505 mL	15.2527 mL	30.5055 mL
		5 mM	0.6101 mL	3.0505 mL	6.1011 mL
10 mM		0.3051 mL	1.5253 mL	3.0505 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.63 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.63 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.63 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	N-Desethyl amodiaquine is the biologically active metabolite of Amodiaquine (HY-B1322A). N-Desethyl amodiaquine is an antiparasitic agent, has inhibitory for strains V1/S and 3D7 with IC ₅₀ values of 97 nM and 25 nM, respectively. N-Desethyl amodiaquine can be used for the research of malaria ^{[1][2]} .
In Vitro	N-Desethyl amodiaquine dihydrochloride has inhibitory for strains V1/S and 3D7 with IC ₅₀ values of 97 nM and 25 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Xue-Qing Li, et al. Amodiaquine clearance and its metabolism to N-desethylamodiaquine is mediated by CYP2C8: a new high affinity and turnover enzyme-specific probe substrate. *J Pharmacol Exp Ther.* 2002 Feb;300(2):399-407.

[2]. Sasi P, et al. In vivo and in vitro efficacy of amodiaquine against *Plasmodium falciparum* in an area of continued use of 4-aminoquinolines in East Africa. *J Infect Dis.* 2009 Jun 1;199(11):1575-82.

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

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