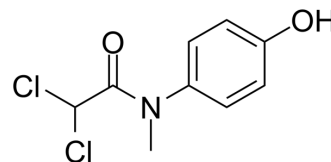


Diloxanide

Cat. No.:	HY-119972		
CAS No.:	579-38-4		
Molecular Formula:	C ₉ H ₉ Cl ₂ NO ₂		
Molecular Weight:	234.08		
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 : 33.33 mg/mL (142.39 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.2720 mL	21.3602 mL	42.7204 mL
		5 mM	0.8544 mL	4.2720 mL	8.5441 mL
10 mM		0.4272 mL	2.1360 mL	4.2720 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 (10.68 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (10.68 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Diloxanide is an anti-protozoal agent and can be used for the research of asymptomatic-intestinal amebiasis caused by Entamoeba histolytica or some other protozoal infections. Diloxanide is an active luminal amebicide and hydrolyzed in the gastrointestinal tract from its prodrug Diloxanide furoate (HY-B1147) ^[1] .
IC₅₀ & Target	Amebae
In Vivo	Diloxanide is hydrolyzed in the gastrointestinal tract from its prodrug Diloxanide furoate ^[1] . Diloxanide furoate (oral administration; 75-200 mg/kg; 3 days; once daily) is effective at different dose of dayin weaning rats. At 200 mg/kg, 100% of the treated rats are cured and no amoebic lesions are observed in the caecum. Besides, 85%, 77%, and 44.4% of the treated rats are cured at the dose 150 mg/kg, 100 mg/kg, and 75 mg/kg, respectively. The ED50 value is 77.9

mg/kg for this agent in rats^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. DB08792

[2]. D K Chatterjee, et al. Antiamoebic activity of chonemorphine, a steroidal alkaloid, in experimental models. Parasitol Res. 1987;74(1):30-3.

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

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