Diloxanide

Cat. No.: HY-119972

CAS No.: 579-38-4

Molecular Formula: $C_9H_9Cl_2NO_2$

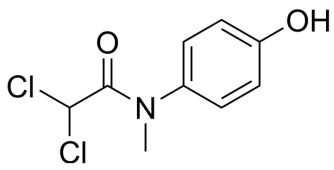
Molecular Weight: 234.08

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)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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 proagent Diloxanide furoate (HY-B1147)[1].

IC_{50} & Target

Amebae

In Vivo

Diloxanide is hydrolyzed in the gastrointestinal tract from its prodrug Diloxanide furoate[1].
Diloxanide furoate (oral administraion; 75-200 mg/kg; 3 days; once daily) is effective at different dose of dayin weanling 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.

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