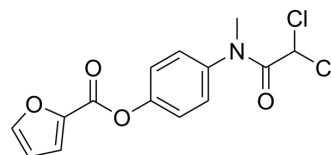


Diloxanide furoate

Cat. No.:	HY-B1147		
CAS No.:	3736-81-0		
Molecular Formula:	C ₁₄ H ₁₁ Cl ₂ NO ₄		
Molecular Weight:	328.15		
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 : ≥ 50 mg/mL (152.37 mM)
 Ethanol : 20 mg/mL (60.95 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.0474 mL	15.2369 mL	30.4739 mL
	5 mM	0.6095 mL	3.0474 mL	6.0948 mL
	10 mM	0.3047 mL	1.5237 mL	3.0474 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.62 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.62 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.62 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Diloxanide furoate is the proagent of Diloxanide. Diloxanide furoate is a potent and orally active anti-protozoal agent and can be used for the research of amebiasis, mild intestinal amebiasis or asymptomatic cyst carriers^[1].

IC₅₀ & Target

Amebae

In Vitro	<p>Diloxanide furoate (1.95-2.5 µg/ml) has potent activity against different strains of <i>E. histolytica</i>, it is against BYso (grown with bacteria), SFL3 (grown with <i>Chrithidia</i> sp.), and SFL3 (grown axenically) with MIC values of 2.5 µg/ml, 2.5 µg/ml and 1.95 µg/ml, respectively^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								
In Vivo	<p>Diloxanide furoate (oral administration; 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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" data-bbox="345 485 1515 722"> <tr> <td data-bbox="345 485 617 548">Animal Model:</td> <td data-bbox="617 485 1515 548">Weanling Wistar rats^[2]</td> </tr> <tr> <td data-bbox="345 548 617 611">Dosage:</td> <td data-bbox="617 548 1515 611">200 mg/kg; 150 mg/kg; 100 mg/kg; 75 mg/kg</td> </tr> <tr> <td data-bbox="345 611 617 674">Administration:</td> <td data-bbox="617 611 1515 674">Oral administration; 75-200 mg/kg; 3 days; once daily</td> </tr> <tr> <td data-bbox="345 674 617 722">Result:</td> <td data-bbox="617 674 1515 722">Was against intestinal (caecal) amoebiasis in rats.</td> </tr> </table>	Animal Model:	Weanling Wistar rats ^[2]	Dosage:	200 mg/kg; 150 mg/kg; 100 mg/kg; 75 mg/kg	Administration:	Oral administration; 75-200 mg/kg; 3 days; once daily	Result:	Was against intestinal (caecal) amoebiasis in rats.
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REFERENCES

[1]. VA CLASSIFICATION. Diloxanide (Systemic)

[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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