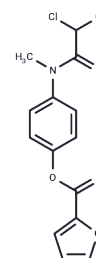


## Diloxanide furoate

## Chemical Properties

CAS No. :	3736-81-0
Formula:	C <sub>14</sub> H <sub>11</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>4</sub>
Molecular Weight:	328.15
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Diloxanide furoate (Dichlofurazol) is an antiprotozoal compound with oral activity that can be used in the study of amoebas in tissues and several other protozoal infections.
Targets(IC50)	Parasite
In vitro	Diloxanide furoate showed significant activity against different strains of Tissue Lysing Ameba in the concentration range of 1.95 to 2.5 µg/ml. The minimum inhibitory concentration (MIC) was 2.5 µg/ml, 2.5 µg/ml and 1.95 µg/ml for BYso strain co-cultivated with bacteria, SFL3 strain co-cultivated with Trypanosoma cruzi and SFL3 strain cultured aseptically. [1]
In vivo	Diloxanide furoate administered orally at doses ranging from 75-200 mg/kg once daily for 3 consecutive days showed efficacy in weanling pups at different doses. Administered at a dose of 200 mg/kg, 100% of the subject rats were cured and no amebic lesions were observed in the cecum. In addition, the cure rate was 85%, 77% and 44.4% when administered at doses of 150 mg/kg, 100 mg/kg and 75 mg/kg, respectively. The half effective dose (ED50) of the drug in rats was 77.9 mg/kg. [1]

## Solubility Information

Solubility	Ethanol: 10 mg/mL (30.47 mM),Sonication is recommended. H <sub>2</sub> O: < 0.1 mg/mL (insoluble) DMSO: 40 mg/mL (121.9 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.09 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
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
50 mM	0.0609 mL	0.3047 mL	0.6095 mL

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Chatterjee DK, et al. Antiamoebic activity of chonemorphine, a steroidal alkaloid, in experimental models. *Parasitol Res.* 1987;74(1):30-3.

Castro Hermida JA, et al. Inhibition of *Cryptosporidium* infection in mice treated with a cyclodextrin inclusion complex with diloxanide furoate. *Parasitol Res.* 2001 Jun;87(6):449-52.

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