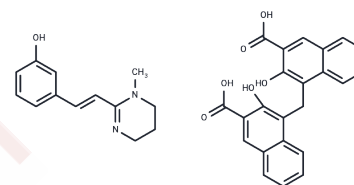


Oxantel Pamoate

Chemical Properties

CAS No. :	68813-55-8
Formula:	C ₃₆ H ₃₂ N ₂ O ₇
Molecular Weight:	604.65
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Oxantel Pamoate (Oxantel embonate) is used as an Antinematodal agent.
Targets(IC50)	Parasite
In vivo	The efficacy of the veterinary drug Oxantel pamoate against <i>Trichuris muris</i> , <i>Ancylostoma ceylanicum</i> , and <i>Necator americanus</i> was evaluated, revealing an ED50s of 4.7 mg/kg for <i>T. muris</i> in mice. When combined with pyrantel pamoate, Oxantel pamoate showed an antagonistic interaction (CI=2.53). Similarly, combinations with Levamisole, Albendazole, or Ivermectin, based on their ED50s, also demonstrated antagonistic effects (CIs of 1.27, 1.90, and 1.27, respectively). Conversely, a combination with mebendazole exhibited a highly synergistic effect (CI=0.15) against <i>T. muris</i> infection. At a dosage of 10 mg/kg, Oxantel pamoate was ineffective against <i>A. ceylanicum</i> and <i>N. americanus</i> [1].

Solubility Information

Solubility	DMSO: 60 mg/mL (99.23 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 (3.31 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

	1mg	5mg	10mg
1 mM	1.6538 mL	8.2692 mL	16.5385 mL
5 mM	0.3308 mL	1.6538 mL	3.3077 mL
10 mM	0.1654 mL	0.8269 mL	1.6538 mL
50 mM	0.0331 mL	0.1654 mL	0.3308 mL

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

Keiser J, et al. Activity of oxantel pamoate monotherapy and combination chemotherapy against *Trichuris muris* and hookworms: revival of an old drug. *PLoS Negl Trop Dis*. 2013;7(3):e2119.

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