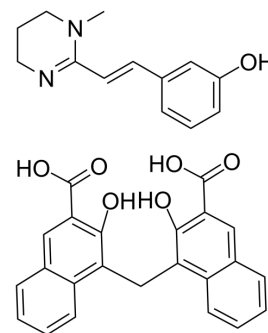


## Oxantel pamoate

<b>Cat. No.:</b>	HY-B1344
<b>CAS No.:</b>	68813-55-8
<b>Molecular Formula:</b>	C <sub>36</sub> H <sub>32</sub> N <sub>2</sub> O <sub>7</sub>
<b>Molecular Weight:</b>	605
<b>Target:</b>	Parasite
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 41.67 mg/mL (68.88 mM; Need ultrasonic)					
	H <sub>2</sub> O : 0.67 mg/mL (1.11 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.6529 mL	8.2645 mL	16.5289 mL
<b>5 mM</b>			0.3306 mL	1.6529 mL	3.3058 mL	
<b>10 mM</b>		0.1653 mL	0.8264 mL	1.6529 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.44 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.44 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Oxantel pamoate is a widely available dewormer, potently against <i>Trichuris muris</i> and Hookworms.
<b>IC<sub>50</sub> &amp; Target</b>	Antiparasitic <sup>[1]</sup>
<b>In Vivo</b>	The activity of the veterinary drug Oxantel pamoate is studied against <i>Trichuris muris</i> , <i>Ancylostoma ceylanicum</i> and <i>Necator americanus</i> . An ED <sub>50</sub> s of 4.7 mg/kg is calculated for Oxantel pamoate against <i>T. muris</i> in mice. Combinations of Oxantel pamoate with pyrantel pamoate behaved antagonistically (combination index (CI)=2.53). Oxantel pamoate combined with Levamisole, Albendazole or Ivermectin using ratios based on their ED <sub>50</sub> s reveals antagonistic effects (CI=1.27, 1.90 and 1.27, respectively). A highly synergistic effect (CI=0.15) is observed when Oxantel pamoate-mebendazole is administered to <i>T. muris</i> -infected mice. Oxantel pamoate (10 mg/kg) lacks activity against <i>Ancylostoma ceylanicum</i> and <i>Necator americanus</i> <sup>[1]</sup>

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

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## REFERENCES

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

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