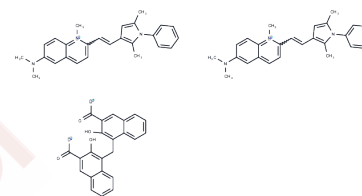


## Pyrvinium pamoate

### Chemical Properties

CAS No. : 3546-41-6  
 Formula: C<sub>26</sub>H<sub>28</sub>N<sub>3</sub> . 1/2 C<sub>23</sub>H<sub>14</sub>O<sub>6</sub>  
 Molecular Weight: 575.71  
 Storage: Powder: -20°C for 3 years  
 Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Pyrvinium pamoate (Pyrvinium embonate) is an old anthelmintic medicine for the treatment of enterobiasis, which re-attracts attention as an anti-cancer drug due to its inhibition of Wnt/ $\beta$ -catenin pathway in some types of cancer.
Targets(IC50)	Wnt/beta-catenin
In vitro	Pyrvinium pamoate treatment repressed the phosphorylation of GSK3 $\beta$ at S9 which might be mediated by AKT, and decreased the protein levels of $\beta$ -catenin and its downstream targets (c-Myc, cyclin D1). Pyrvinium pamoate remarkably inhibited cell viability and colony formation ability. Treatment with pyrvinium pamoate induced intrinsic pathway-dependent apoptosis accompanied with a decline of anti-apoptotic XIAP and Survivin, and an overt increase of pro-apoptotic Bax. In addition, pyrvinium pamoate significantly inhibited the migration and invasion in vitro[1].

### Solubility Information

Solubility	DMSO: 9.62 mg/mL (16.71 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: 0.96 mg/mL (1.67 mM), Solution. <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	1.737 mL	8.6849 mL	17.3699 mL
5 mM	0.3474 mL	1.737 mL	3.474 mL
10 mM	0.1737 mL	0.8685 mL	1.737 mL
50 mM	0.0347 mL	0.1737 mL	0.3474 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

Zheng L , Liu Y , Pan J . Inhibitory effect of pyrvinium pamoate on uveal melanoma cells involves blocking of Wnt/ $\beta$ -catenin pathway[J].2017(49):898.

Xu F , Zhu Y , Lu Y , et al. Anthelmintic pyrvinium pamoate blocks Wnt/ $\beta$ -catenin and induces apoptosis in multiple myeloma cells[J]. Oncology Letters, 2018.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481