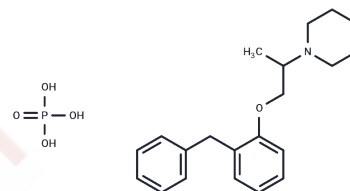


## Benproperine phosphate

## Chemical Properties

CAS No. :	19428-14-9
Formula:	C <sub>21</sub> H <sub>30</sub> N <sub>1</sub> O <sub>5</sub> P
Molecular Weight:	407.44
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	Benproperine phosphate (Pirexyl phosphate) is a cough suppressant.
Targets(IC50)	Microtubule Associated,Arp2/3 Complex

## Solubility Information

Solubility	Alcohol: 3 mg/mL (7.36 mM),Sonication is recommended. DMSO: 7.5 mg/mL (18.41 mM),Sonication is recommended. H2O: 81 mg/mL (198.8 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: 1 mg/mL (2.45 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	2.4543 mL	12.2717 mL	24.5435 mL
5 mM	0.4909 mL	2.4543 mL	4.9087 mL
10 mM	0.2454 mL	1.2272 mL	2.4543 mL
50 mM	0.0491 mL	0.2454 mL	0.4909 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

Feng, S., Liu, J., Han, X., & Fan, J. (2019). Resonance light scattering study on the interaction of benproperine phosphate with eriochrome blue black R in the presence of sodium dodecylbenzene sulphonate and its analytical application. *Luminescence*, 24(2), 67-72.

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