

## Propoxur

## Chemical Properties

CAS No. : 114-26-1

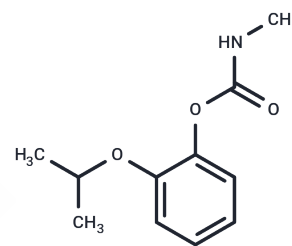
Formula: C<sub>11</sub>H<sub>15</sub>NO<sub>3</sub>

Molecular Weight: 209.24

Keep away from direct sunlight

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	Propoxur (Propoxure) is an insecticide used to control cockroaches, flies, mosquitoes, and lawn and turf insects. Acute (short-term) exposure of humans to propoxur by ingestion leads to cholinesterase inhibition of red blood cells, with mild cholinergic symptoms including blurred vision, nausea, vomiting, sweating, and tachycardia; however, the effects are transient. Chronic (long-term) inhalation exposure has resulted in depressed cholinesterase levels, headaches, vomiting, and nausea in humans. Chronic ingestion studies in animals have reported depressed cholinesterase levels, depressed body weight, effects to the liver and bladder, and a slight increase in neuropathy. No information is available on the reproductive, developmental, or carcinogenic effects of propoxur in humans. Mixed results are available from cancer studies of propoxur in animals. EPA has not classified propoxur for carcinogenicity.
Targets(IC50)	MMP,ERK,Nrf2,AChR,Antifungal,Cholinesterase (ChE),ROS

## Solubility Information

Solubility	DMSO: 50 mg/mL (238.96 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 (9.56 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	4.7792 mL	23.896 mL	47.792 mL
5 mM	0.9558 mL	4.7792 mL	9.5584 mL
10 mM	0.4779 mL	2.3896 mL	4.7792 mL
50 mM	0.0956 mL	0.4779 mL	0.9558 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

Mehta KD, et al. Environ Toxicol. 2014 Jun; 29(6): 705-13.

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