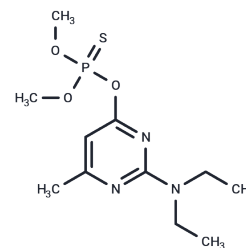


Pirimiphos-methyl

Chemical Properties

CAS No. :	29232-93-7
Formula:	C ₁₁ H ₂₀ N ₃ O ₃ PS
Molecular Weight:	305.33
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Pirimiphos-methyl (AI3-27699) is a rapid-acting organophosphorus insecticide and acaricide, causing inhibition of AChE in target organisms. Pirimiphos-methyl is often used for prevention and control of beetles, moths, snout beetles and Ephestia cautella during storage of agricultural grains.
Targets(IC50)	Parasite,Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 60 mg/mL (196.51 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 (6.55 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	3.2751 mL	16.3757 mL	32.7514 mL
5 mM	0.655 mL	3.2751 mL	6.5503 mL
10 mM	0.3275 mL	1.6376 mL	3.2751 mL
50 mM	0.0655 mL	0.3275 mL	0.655 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

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Lee RM, Choong CT, Goh BP, Ng LC, Lam-Phua SG. Bioassay and biochemical studies of the status of pirimiphos-methyl and cypermethrin resistance in *Aedes (Stegomyia) aegypti* and *Aedes (Stegomyia) albopictus* (Diptera: Culicidae) in Singapore. *Trop Biomed*. 2014 Dec;31(4):670-9. PubMed PMID: 25776592.

Haji KA, Thawer NG, Khatib BO, Mcha JH, Rashid A, Ali AS, Jones C, Bagi J, Magesa SM, Ramsan MM, Garimo I, Greer G, Reithinger R, Ngondi JM. Efficacy, persistence and vector susceptibility to pirimiphos-methyl (Actellic 300CS) insecticide for indoor residual spraying in Zanzibar. *Parasit Vectors*. 2015 Dec 9;8:628.

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