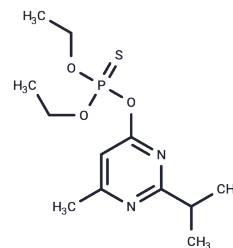


Diazinon

Chemical Properties

CAS No. :	333-41-5
Formula:	C ₁₂ H ₂₁ N ₂ O ₃ PS
Molecular Weight:	304.35
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	Diazinon (Dimpylate) is a thiophosphoric acid ester, functioning as a nonsystemic organophosphate insecticide that effectively targets and controls a variety of pests including cockroaches, silverfish, ants, and fleas.
Targets(IC50)	Parasite,Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: 45 mg/mL (147.86 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 (6.57 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	3.2857 mL	16.4285 mL	32.8569 mL
5 mM	0.6571 mL	3.2857 mL	6.5714 mL
10 mM	0.3286 mL	1.6428 mL	3.2857 mL
50 mM	0.0657 mL	0.3286 mL	0.6571 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

Katuli KK, et al. Chemosphere. 2014 Aug;108:396-404.

Wang J, Qiao Y, Sun H, et al. Decreased SLC27A5 Suppresses Lipid Synthesis and Tyrosine Metabolism to Activate the Cell Cycle in Hepatocellular Carcinoma. Biomedicines. 2022, 10(2): 234.

Xie F, Hua S, Guo Y, et al. Identification of TAT as a Biomarker Involved in Cell Cycle and DNA Repair in Breast Cancer. Biomolecules. 2024, 14(9): 1088.

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