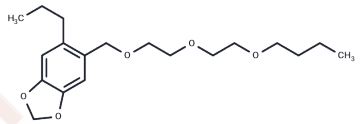
Data Sheet (Cat.No.T0727)

TargetMol

Piperonyl butoxide

Chemical Properties



CAS No. : 51-03-6

Formula: C19H30O5

Molecular Weight: 338.44

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	Piperonyl butoxide (Pyrenone 606) is an insecticide synergist, particularly for rotenone and pyrethroids.
Targets(IC50)	Parasite

Solubility Information

Solubility	DMSO: 250 mg/mL (738.68 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: < 10 mg/mL (29.55 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: 10 mg/mL (29.55 mM),Solution. 10% DMSO+90% (20% SBE-β-CD in Saline): 10 mg/mL (29.55 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (29.55 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9547 mL	14.7737 mL	29.5473 mL
5 mM	0.5909 mL	2.9547 mL	5.9095 mL
10 mM	0.2955 mL	1.4774 mL	2.9547 mL
50 mM	0.0591 mL	0.2955 mL	0.5909 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

Casida, J. E. J Agric Food Chem. 1970 Sep-Oct;18(5):753-72.