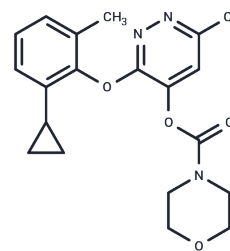


## Cyclopyrimorate

## Chemical Properties

CAS No. :	499231-24-2
Formula:	C <sub>19</sub> H <sub>20</sub> ClN <sub>3</sub> O <sub>4</sub>
Molecular Weight:	389.833
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	Cyclopyrimorate is a highly effective bleaching herbicide for weed control in rice fields.
Targets(IC50)	Others
In vitro	The bleaching effect of Cyclopyrimorate on Arabidopsis thaliana can be reversed by decyl PQ, suggesting that this symptom results from the inhibition of PQ (PQ) biosynthesis [1].

## Solubility Information

Solubility	DMSO: 250 mg/mL (641.3 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: 5 mg/mL (12.83 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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	1mg	5mg	10mg
1 mM	2.5652 mL	12.8261 mL	25.6522 mL
5 mM	0.513 mL	2.5652 mL	5.1304 mL
10 mM	0.2565 mL	1.2826 mL	2.5652 mL
50 mM	0.0513 mL	0.2565 mL	0.513 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

Shino M, et al. In vivo and in vitro evidence for the inhibition of homogentisate solanesyltransferase by cyclopyrimorate. *Pest Manag Sci.* 2019 Nov 27.

Shino M, et al. Action mechanism of bleaching herbicide cyclopyrimorate, a novel homogentisate solanesyltransferase inhibitor. *J Pestic Sci.* 2018 Nov 20;43(4):233-239.

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