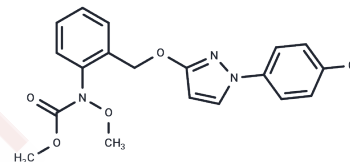


Pyraclostrobin

Chemical Properties

CAS No. :	175013-18-0
Formula:	C ₁₉ H ₁₈ ClN ₃ O ₄
Molecular Weight:	387.82
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	Pyraclostrobin is one of the most heavily used fungicides that inhibits mitochondrial complex III of fungal and mammalian cells.
Targets(IC50)	Bcl-2 Family, Antibacterial, AMPK, Autophagy, Antifungal, mTOR

Solubility Information

Solubility	DMSO: 250 mg/mL (644.63 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (25.79 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (25.79 mM), Suspension. <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	2.5785 mL	12.8926 mL	25.7852 mL
5 mM	0.5157 mL	2.5785 mL	5.157 mL
10 mM	0.2579 mL	1.2893 mL	2.5785 mL
50 mM	0.0516 mL	0.2579 mL	0.5157 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

Anthony L Luz, et al. The High-Production Volume Fungicide Pyraclostrobin Induces Triglyceride Accumulation Associated With Mitochondrial Dysfunction, and Promotes Adipocyte Differentiation Independent of PPAR γ Activation, in 3T3-L1 Cells. 2018 Jan 15;393:150-159.

Alexander H Tuttle, et al. Choice of Vehicle Affects Pyraclostrobin Toxicity in Mice. Chemosphere. 2019 Mar;218:501-506.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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