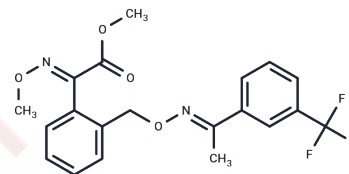


Trifloxystrobin

Chemical Properties

CAS No. :	141517-21-7
Formula:	C ₂₀ H ₁₉ F ₃ N ₂ O ₄
Molecular Weight:	408.37
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	Trifloxystrobin (CGA 279202) is a fungicide that inhibits the growth of R. solani isolates from sugar beet crops, with EC ₅₀ values of 23.0 µg/L for Daphnia magna neonates and 1.7 µg/L for embryos.
Targets(IC ₅₀)	Apoptosis,Caspase,Antifungal,PARP

Solubility Information

Solubility	DMSO: 125 mg/mL (306.09 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: 4 mg/mL (9.8 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	2.4488 mL	12.2438 mL	24.4876 mL
5 mM	0.4898 mL	2.4488 mL	4.8975 mL
10 mM	0.2449 mL	1.2244 mL	2.4488 mL
50 mM	0.049 mL	0.2449 mL	0.4898 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

Jang Y , Lee A Y , Chang S H , et al. Trifloxystrobin induces tumor necrosis factor-related apoptosis-inducing ligand (TRAIL)-mediated apoptosis in HaCaT, human keratinocyte cells[J]. Drug and Chemical Toxicology, 2016:1-7.

Cui F , Chai T , Liu X , et al. Toxicity of three strobilurins (kresoxim-methyl, pyraclostrobin and trifloxystrobin) on Daphnia magna[J]. Environmental Toxicology and Chemistry, 2016, 36(1):182.

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