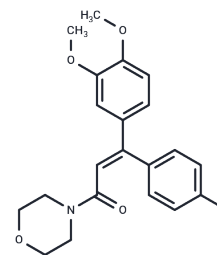


Flumorph

Chemical Properties

CAS No. :	211867-47-9
Formula:	C ₂₁ H ₂₂ FNO ₄
Molecular Weight:	371.4
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	Flumorph (SYP-L190) (SYP-L190) is a carboxylic acid amide fungicide.
Targets(IC50)	Antifungal
In vitro	Flumorph did not inhibit the synthesis of cell wall materials but disturbed the polar deposition of newly synthesized cell wall materials during cystospore germination and hyphal growth. In flumorph-treated hyphae, the most characteristic change was the development of periodic swelling ('beaded' morphology) and the disruption of tip growth. Upon removing flumorph, normal tip growth and organized F-actin have observed again [1]. Flumorph had induced systemic genotoxicity in mammals as it caused DNA damage in all tested vital organs, especially in the brain and spleen [2].

Solubility Information

Solubility	DMSO: 25 mg/mL (67.31 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 (5.39 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	2.6925 mL	13.4626 mL	26.9251 mL
5 mM	0.5385 mL	2.6925 mL	5.385 mL
10 mM	0.2693 mL	1.3463 mL	2.6925 mL
50 mM	0.0539 mL	0.2693 mL	0.5385 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

Sheng Zhu S, et al. Flumorph Is a Novel Fungicide That Disrupts Microfilament Organization in Phytophthora melonis. *Phytopathology*. 2007 May;97(5):643-9.

Zhang T, et al. Assessment of genotoxic effects of flumorph by the comet assay in mice organs. *Hum Exp Toxicol*. 2014 Mar;33(3):224-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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