

Product Data Sheet

Product Name: Flumorph

Cat. No.: GC36059

Chemical Properties

Cas. No. 211867-47-9

SMILES O=C(N1CCOCC1)/C=C(C2=CC=C(OC)C(OC)=C2)\C3=CC=C(F)C=C3

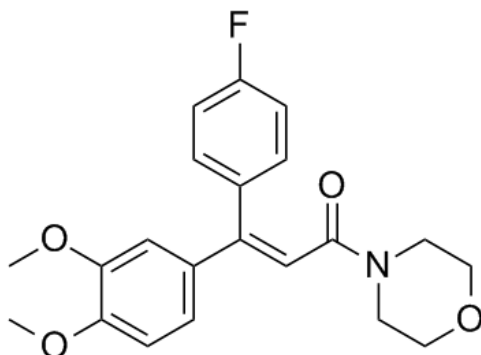
Formula $C_{21}H_{22}FNO_4$ M.Wt 371.4

Solubility DMSO : 100 mg/mL (269.25 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Flumorph(SYP-L190) is a carboxylic acid amide (CAA) fungicide. IC50 value: Target: Fungicide agent. 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 were observed again [1]. Flumorph had induced systemic genotoxicity in mammals

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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as it caused DNA damage in all tested vital organs, especially in brain and spleen [2].

[1]. Sheng Zhu S, et al. Flumorph Is a Novel Fungicide That Disrupts Microfilament Organization in *Phytophthora melonis*. *Phytopathology*. 2007 May;97(5):643-9. [2]. 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.

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