

Cyhalofop-butyl

Chemical Properties

CAS No. : 122008-85-9

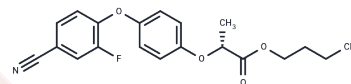
Formula: C₂₀H₂₀FNO₄

Molecular Weight: 357.38

Keep away from direct sunlight

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	Cyhalofop-butyl is an ACCase (acetyl-coenzyme A carboxylase) inhibitor and herbicide that suppresses plant lipid synthesis at the meristematic level.
Targets(IC ₅₀)	Acetyl-CoA Carboxylase

Solubility Information

Solubility	DMSO: 200 mg/mL (559.63 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7981 mL	13.9907 mL	27.9814 mL
5 mM	0.5596 mL	2.7981 mL	5.5963 mL
10 mM	0.2798 mL	1.3991 mL	2.7981 mL
50 mM	0.056 mL	0.2798 mL	0.5596 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

Yu J, et al. Mechanism of resistance to cyhalofop-butyl in Chinese sprangletop (*Leptochloa chinensis* (L.) Nees). *Pestic Biochem Physiol.* 2017 Nov;143:306-311.

Dong W, et al. The metabolic pathway of metamifop degradation by consortium ME-1 and its bacterial community structure. *Biodegradation.* 2017 Jun;28(2-3):181-194.

de B Pazini J, et al. Toxicity of Pesticide Tank Mixtures from Rice Crops Against *Telenomus podisi* Ashmead (Hymenoptera: Platygastridae). *Neotrop Entomol.* 2017 Aug;46(4):461-470.

Wang C, et al. Identification and characterization of a novel carboxylesterase (FpbH) that hydrolyzes aryloxyphenoxypropionate herbicides. *Biotechnol Lett.* 2017 Apr;39(4):553-560.

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