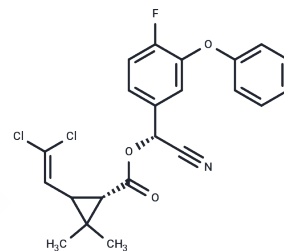


β -Cyfluthrin

Chemical Properties

CAS No. :	1820573-27-0
Formula:	C ₂₂ H ₁₈ Cl ₂ FNO ₃
Molecular Weight:	434.29
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	β -Cyfluthrin is a type II synthetic pyrethroid compound commonly utilized as an active ingredient in agricultural insecticide products. It exerts its insecticidal properties by acting as a neurotoxicant, primarily impacting the calcium concentration within nervous tissue. This effect is achieved through the inhibition of Ca ²⁺ ATPase, a crucial component involved in calcium transport.
Targets(IC50)	Others, Calcium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3026 mL	11.513 mL	23.0261 mL
5 mM	0.4605 mL	2.3026 mL	4.6052 mL
10 mM	0.2303 mL	1.1513 mL	2.3026 mL
50 mM	0.0461 mL	0.2303 mL	0.4605 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

Neelu Kanwar Rajawat, et al. Effect of β -cyfluthrin (Synthetic Pyrethroid) on Learning, Muscular Coordination and Oxidative Stress in Swiss Albino Mice. Toxicol Ind Health. 2019 May;35(5):358-367.

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