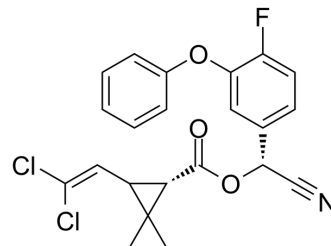


β-Cyfluthrin

Cat. No.:	HY-B1837A		
CAS No.:	1820573-27-0		
Molecular Formula:	C ₂₂ H ₁₈ Cl ₂ FNO ₃		
Molecular Weight:	434.29		
Target:	Calcium Channel		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (115.13 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3026 mL	11.5130 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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (5.76 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.76 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	β-Cyfluthrin (beta-Cyfluthrin) is a type II synthetic pyrethroid and also an active ingredient of many insecticide products used for pest in agriculture. β-Cyfluthrin is a neurotoxicant and affects calcium concentration in nervous tissue by inhibiting Ca ²⁺ ATPase involved in calcium transport ^[1] .
IC₅₀ & Target	Target: Ca ²⁺ ATPase ^[1]

REFERENCES

[1]. 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.

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

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