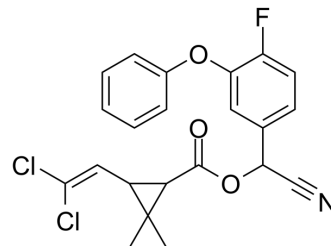


Cyfluthrin

Cat. No.:	HY-B1837	
CAS No.:	68359-37-5	
Molecular Formula:	C ₂₂ H ₁₈ Cl ₂ FNO ₃	
Molecular Weight:	434.29	
Target:	Sodium Channel	
Pathway:	Membrane Transporter/Ion Channel	
Storage:	Pure form	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 200 mg/mL (460.52 mM)
 * " \geq " means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	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.

BIOLOGICAL ACTIVITY

Description	Cyfluthrin is a type II pyrethroid and has effects on various insects. Cyfluthrin is a modulator of Nav _{1.8} sodium channels by repetitive stimulation. Cyfluthrin can be applied in agriculture, veterinary, insecticide, pyrethroid and stored product ^{[1][2]} .
IC₅₀ & Target	Nav1.8
In Vitro	Cyfluthrin (0-50 μ M; 24 hours) is against SH-SY5Y cell growth with an IC ₅₀ and an IC ₃₀ of 19.39 μ M and 4.81 μ M, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jin-Sung Choi, et al. Structure-activity Relationships for the Action of 11 Pyrethroid Insecticides on Rat Nav 1.8 Sodium Channels Expressed in Xenopus Oocytes. Toxicol Appl Pharmacol. 2006 Mar 15;211(3):233-44

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

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