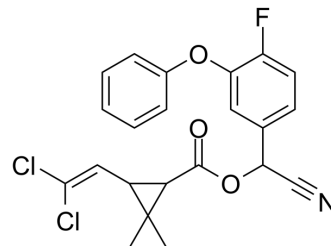


Cyfluthrin

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:	Please store the product under the recommended conditions in the Certificate of Analysis.



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 μM; 24 hours) is against SH-SY5Y cell growth with an IC ₅₀ and an IC ₃₀ of 19.39 μM and 4.81 μM, 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
- [2]. María-Aránzazu Martínez, et al. Oxidative Stress and Related Gene Expression Effects of Cyfluthrin in Human Neuroblastoma SH-SY5Y Cells: Protective Effect of Melatonin. *Environ Res.* 2019 Oct;177:108579.

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

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