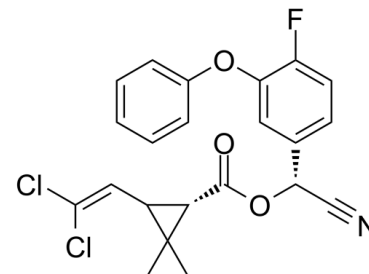


Data Sheet

Product Name:	β-Cyfluthrin
Cat. No.:	CS-0129022
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
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

β-Cyfluthrin (beta-Cyfluthrin) is a type II synthetic **pyrethroid** and also an active ingredient of many insecticide products used for pest control in agriculture. β-Cyfluthrin is a **neurotoxicant** and affects calcium concentration in nervous tissue by inhibiting **Ca²⁺ ATPase** involved in calcium transport^[1]. IC₅₀ & Target: Target: Ca²⁺ 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.

CAIndexNames:

Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (R)-cyano(4-fluoro-3-phenoxyphenyl)methyl ester, (1S)-rel-

SMILES:

O=C([C@@H]1C(C)(C)C1/C=C(Cl)Cl)O[C@@H](C#N)C2=CC=C(F)C(OC3=CC=CC=C3)=C2

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

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