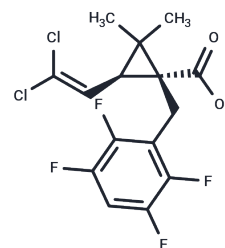


Transfluthrin

Chemical Properties

CAS No. :	118712-89-3
Formula:	C ₁₅ H ₁₂ Cl ₂ F ₄ O ₂
Molecular Weight:	371.15
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	Transfluthrin is a volatile pyrethroid insecticide that targets insect voltage-gated sodium channels (VGSC).
Targets(IC50)	Others,Sodium Channel

Solubility Information

Solubility	DMSO: 50 mg/mL (134.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6943 mL	13.4716 mL	26.9433 mL
5 mM	0.5389 mL	2.6943 mL	5.3887 mL
10 mM	0.2694 mL	1.3472 mL	2.6943 mL
50 mM	0.0539 mL	0.2694 mL	0.5389 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

- Nolden M, et al. Towards understanding transfluthrin efficacy in a pyrethroid-resistant strain of the malaria vector *Anopheles funestus* with special reference to cytochrome P450-mediated detoxification. *Curr Res Parasitol Vector Borne Dis.* 2021 Jul 19;1:100041.
- Andreazza F, et al. Sodium channel activation underlies transfluthrin repellency in *Aedes aegypti*. *PLoS Negl Trop Dis.* 2021 Jul 8;15(7):e0009546.

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