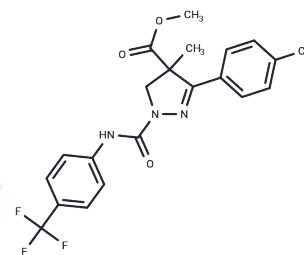


RH 3421

Chemical Properties

CAS No. : 99832-61-8
 Formula: C₂₀H₁₇ClF₃N₃O₃
 Molecular Weight: 439.82
 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	RH 3421 is used as a neuroactive dihydropyrazole insecticide.
Targets(IC50)	Others,Sodium Channel

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2737 mL	11.3683 mL	22.7366 mL
5 mM	0.4547 mL	2.2737 mL	4.5473 mL
10 mM	0.2274 mL	1.1368 mL	2.2737 mL
50 mM	0.0455 mL	0.2274 mL	0.4547 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

Nicholson RA, Williams MF. Sub-chronic administration of ethanol to mice does not modify the inhibitory effects of dieldrin, abamectin and the dihydropyrazole RH-3421 at their respective sites of action in the nervous system. *Comp Biochem Physiol C*. 1993 May;105(1):69-72. PubMed PMID: 7687943.

Tsurubuchi Y, Zhao X, Nagata K, Kono Y, Nishimura K, Yeh JZ, Narahashi T. Modulation of tetrodotoxin-resistant sodium channels by dihydropyrazole insecticide RH-3421 in rat dorsal root ganglion neurons. *Neurotoxicology*. 2001 Dec;22(6):743-53. PubMed PMID: 11829408.

Zhang A, Nicholson RA. RH-3421, a potent dihydropyrazole insecticide, inhibits depolarization-stimulated rises in free [Ca²⁺] and 45Ca²⁺ uptake in mammalian synaptosomes. *Comp Biochem Physiol C Pharmacol Toxicol Endocrinol*. 1994 Jul;108(3):307-10. PubMed PMID: 7881802.

Silver K, Soderlund DM. State-dependent block of rat Nav1.4 sodium channels expressed in xenopus oocytes by pyrazoline-type insecticides. *Neurotoxicology*. 2005 Jun;26(3):397-406. PubMed PMID: 15935211.

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