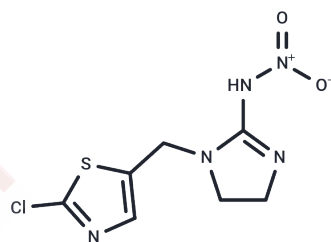


Imidaclothiz

Chemical Properties

CAS No. :	105843-36-5
Formula:	C ₇ H ₈ ClN ₅ O ₂ S
Molecular Weight:	261.69
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	Imidaclothiz is a neonicotinoid insecticide and a nicotinic acetylcholine receptor (nAChR) agonist. It causes paralysis and death in pests by overstimulating the nervous system.
Targets(IC50)	AChR
In vitro	In plant models, Imidaclothiz is rapidly absorbed by roots and translocated to shoots, undergoing biotransformation via dechlorination and hydroxylation [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (305.71 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	3.8213 mL	19.1066 mL	38.2132 mL
5 mM	0.7643 mL	3.8213 mL	7.6426 mL
10 mM	0.3821 mL	1.9107 mL	3.8213 mL
50 mM	0.0764 mL	0.3821 mL	0.7643 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

Dantsu Y, et, al. Synthesis and Structural Characterization of 2'-Deoxy-2'-fluoro-l-uridine Nucleic Acids. Org Lett. 2021 Jul 2;23(13):5007-5011.

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