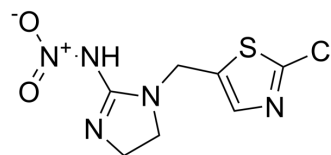


Imidaclothiz

Cat. No.:	HY-W338247		
CAS No.:	105843-36-5		
Molecular Formula:	C ₇ H ₈ ClN ₅ O ₂ S		
Molecular Weight:	261.69		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (382.13 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (9.55 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (9.55 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Imidaclothiz is a kind of neonicotinoid insecticides. Imidaclothiz has excellent insecticidal effect. Imidaclothiz can be used for the research of sucking and biting insects^[1].

REFERENCES

- [1]. Tao Y, et, al. Uptake, Translocation, and Biotransformation of Neonicotinoid Imidaclothiz in Hydroponic Vegetables: Implications for Potential Intake Risks. J Agric Food Chem. 2021 Apr 14;69(14):4064-4073.

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

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