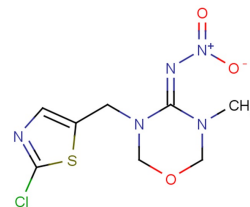


Thiamethoxam

Chemical Properties

CAS No.:	153719-23-4
Formula:	C ₈ H ₁₀ ClN ₅ O ₃ S
Molecular Weight:	291.71
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Thiamethoxam is an insecticide of broad-spectrum neonicotinoids.
Targets(IC ₅₀)	Others: None
In vivo	Thiamethoxam does harm honey bee visual learning and increases abnormal behaviors [2].

Solubility Information

Solubility	DMSO: 250 mg/mL (857.02 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.428 mL	17.14 mL	34.281 mL
5 mM	0.686 mL	3.428 mL	6.856 mL
10 mM	0.343 mL	1.714 mL	3.428 mL
50 mM	0.069 mL	0.343 mL	0.686 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Lobson C, et al. Fate of thiamethoxam in mesocosms and response of the zooplankton community. *Sci Total Environ*. 2018 Oct 1;637-638:1150-1157.
2. Ludicke JC, et al. Thiamethoxam impairs honey bee visual learning, alters decision times, and increases abnormal behaviors. *Ecotoxicol Environ Saf*. 2020 Apr 15;193:110367.

Inhibitors · Natural Compounds · Compound Libraries

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