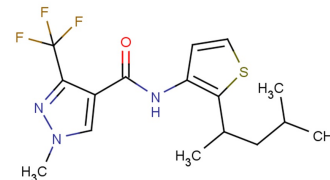


Penthiopyrad

Chemical Properties

CAS No.:	183675-82-3
Formula:	C ₁₆ H ₂₀ F ₃ N ₃ O ₂ S
Molecular Weight:	359.41
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Penthiopyrad suppresses fungal respiration by binding to mitochondrial respiratory complex II. Penthiopyrad is a carboxamide fungicide used to control a broad spectrum of diseases on a large variety of crops.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 26 mg/mL (72.34 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.782 mL	13.912 mL	27.823 mL
5 mM	0.556 mL	2.782 mL	5.565 mL
10 mM	0.278 mL	1.391 mL	2.782 mL
50 mM	0.056 mL	0.278 mL	0.556 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. Ceballos-Alcantarilla E, et al. Haptens, bioconjugates, and antibodies for penthiopyrad immunosensing. Analyst. 2014 Nov 7;139(21):5358-61.
2. Qian L, et al. Effects of penthiopyrad on the development and behaviour of zebrafish in early-life stages. Chemosphere. 2019 Jan;214:184-194.

Inhibitors · Natural Compounds · Compound Libraries

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