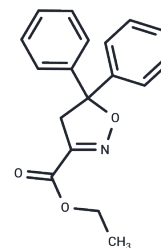


Isoxadifen-ethyl

Chemical Properties

CAS No. :	163520-33-0
Formula:	C ₁₈ H ₁₇ NO ₃
Molecular Weight:	295.33
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	Isoxadifen-ethyl is herbicide safener and an agrochemical. Isoxadifen-ethyl can effectively alleviate nicosulfuron injury in the maize.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 16.67 mg/mL (56.45 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	3.386 mL	16.9302 mL	33.8604 mL
5 mM	0.6772 mL	3.386 mL	6.7721 mL
10 mM	0.3386 mL	1.693 mL	3.386 mL
50 mM	0.0677 mL	0.3386 mL	0.6772 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

- Cutti L, et al. The safener isoxadifen-ethyl confers fenoxaprop-p-ethyl resistance on a biotype of Echinochloa crus-galli. Pest Manag Sci. 2022 Jun;78(6):2287-2298.
- Sun L, et al. Physiological basis for isoxadifen-ethyl induction of nicosulfuron detoxification in maize hybrids. PLoS One. 2017 Mar 7;12(3):e0173502.

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