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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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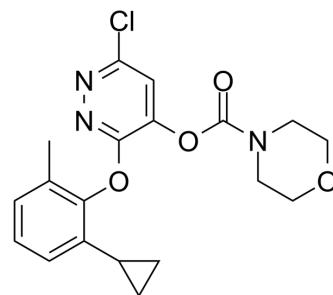
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Cyclopyrimorate

Cat. No.:	HY-119989
CAS No.:	499231-24-2
Molecular Formula:	C ₁₉ H ₂₀ ClN ₃ O ₄
Molecular Weight:	389.83
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (641.31 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.5652 mL	12.8261 mL	25.6522 mL
		5 mM		0.5130 mL	2.5652 mL	5.1304 mL
		10 mM		0.2565 mL	1.2826 mL	2.5652 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 6.25 mg/mL (16.03 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (16.03 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Cyclopyrimorate, a highly effective bleaching herbicide for weed control in rice fields, targets homogentisate solanesyltransferase (HST). HST is a downstream enzyme of 4-hydroxyphenylpyruvate dioxygenase in the plastoquinone (PQ) biosynthesis pathway ^{[1][2]} .
In Vitro	Cyclopyrimorate-dependent bleaching effect on <i>Arabidopsis thaliana</i> is reversed by decyl PQ, suggesting that this symptom is attributable to the inhibition of PQ biosynthesis ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Shino M, et al. In vivo and in vitro evidence for the inhibition of homogentisate solanesyltransferase by cyclopyrimorate. Pest Manag Sci. 2019 Nov 27.
- [2]. Shino M, et al. Action mechanism of bleaching herbicide cyclopyrimorate, a novel homogentisate solanesyltransferase inhibitor. J Pestic Sci. 2018 Nov 20;43(4):233-239.
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Caution: Product has not been fully validated for medical applications. For research use only.

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