Product Data Sheet

Pyrimorph

Cat. No.:HY-123155CAS No.:868390-90-3Molecular Formula: $C_{22}H_{25}CIN_2O_2$

Molecular Weight: 384.9

Target: Fungal

Pathway: Anti-infection

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: 125 mg/mL (324.76 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.5981 mL	12.9904 mL	25.9808 mL
	5 mM	0.5196 mL	2.5981 mL	5.1962 mL
	10 mM	0.2598 mL	1.2990 mL	2.5981 mL

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

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Description	Pyrimorph is a fungicide with excellent a	intifungal activity against oomycetes $^{[1]}$.
In Vitro	$(EC_{50} = 0.17 \mu g/mL)$, zoospore release (E Pyrimorph exhibits 40.95% inhibition of Pyrimorph inhibits the synthesis of cell thickening and disruption of vacuoles ^[1]	e life cycle of P.capsici: mycelial growth (EC $_{50}$ = 1.84 µg/mL), sporangia formation C_{50} = 4.92 µg/mL), cystospore germination (EC $_{50}$ = 0.09 µg/mL) $^{[1]}$. oxygen consumption of intact mycelia at 100 µg/mL $^{[1]}$. vall either directly or indirectly from ultrastructural transformation of cell wall . ne accuracy of these methods. They are for reference only.
In Vivo	MCE has not independently confirmed to Animal Model: Zebrafisl	n) has low toxicity and accumulates quickly in zebrafish ^[2] . ne accuracy of these methods. They are for reference only. n (Brachydanio rerio), with an average body weight and length of about 0.30±0.10 10±0.50 cm, respectively ^[2]

Dosage:	0-28 mg/L
Administration:	Exposure, 0-192 h
Result:	Had low toxicity to zebrafish, with LC_{50} values ranging from 24.33 mg/L (24 h) to 19.79 mg/L (96 h). Accumulated in fish shortly.

REFERENCES

[1]. Xiaojing Yan, et al. Study of inhibitory effects and action mechanism of the novel fungicide pyrimorph against Phytophthora capsici. J Agric Food Chem. 2010 Mar 10;58(5):2720-5.

[2]. Chunqing Zhao, et al. Acute toxicity and bioconcentration of pyrimorph in zebrafish, Brachydanio rerio. Pest Manag Sci. 2011 Sep;67(9):1178-83.

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

Tel: 609-228-6898

Fax: 609-228-5909

 $\hbox{E-mail: tech@MedChemExpress.com}$

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA