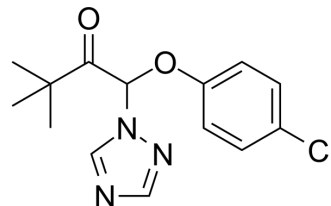


Triadimefon

Cat. No.:	HY-123037		
CAS No.:	43121-43-3		
Molecular Formula:	C ₁₄ H ₁₆ ClN ₃ O ₂		
Molecular Weight:	293.75		
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 : 250 mg/mL (851.06 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.4043 mL	17.0213 mL	34.0426 mL
	5 mM	0.6809 mL	3.4043 mL	6.8085 mL
	10 mM	0.3404 mL	1.7021 mL	3.4043 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.08 mg/mL (7.08 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (7.08 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (7.08 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Triadimefon is a triazole fungicide used to control powdery mildew, rusts, and other fungal pests on grains, fruit and vegetable crops, turf, shrubs, and trees. Triadimefon inhibits lanosterol 14α-demethylase, interfering with oxidative demethylation reactions in the ergosterol biosynthesis pathway of fungi, and also blocks gibberellin biosynthesis.

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

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