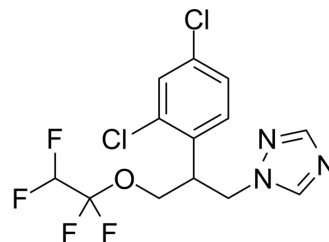


Tetraconazole

Cat. No.:	HY-117089		
CAS No.:	112281-77-3		
Molecular Formula:	C ₁₃ H ₁₁ Cl ₂ F ₄ N ₃ O		
Molecular Weight:	372.15		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Pure form	-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 (335.89 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6871 mL	13.4354 mL	26.8709 mL
	5 mM	0.5374 mL	2.6871 mL	5.3742 mL
	10 mM	0.2687 mL	1.3435 mL	2.6871 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 (5.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (5.59 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (5.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tetraconazole, a chiral triazole fungicide, is widely used for the prevention of plant disease in wheat fields^[1]. Tetraconazole alters the methionine and ergosterol biosynthesis pathways in *Saccharomyces* yeasts promoting changes on volatile derived compounds^[2].

REFERENCES

[1]. Tong Z, et al. Enantioselective effects of the chiral fungicide tetraconazole in wheat: Fungicidal activity and degradation behavior. Environ Pollut. 2019;247:1-8.

[2]. Sieiro-Sampedro T, et al. Tetraconazole alters the methionine and ergosterol biosynthesis pathways in Saccharomyces yeasts promoting changes on volatile derived compounds. Food Res Int. 2020;130:108930.

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

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