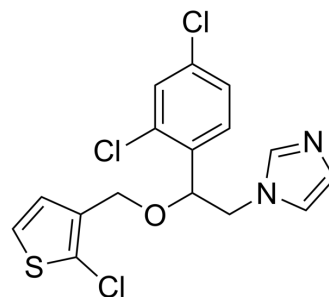


Tioconazole

Cat. No.:	HY-B0319		
CAS No.:	65899-73-2		
Molecular Formula:	C ₁₆ H ₁₃ Cl ₃ N ₂ OS		
Molecular Weight:	387.71		
Target:	Fungal; Antibiotic		
Pathway:	Anti-infection		
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 : ≥ 100 mg/mL (257.92 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5792 mL	12.8962 mL	25.7925 mL
	5 mM	0.5158 mL	2.5792 mL	5.1585 mL
	10 mM	0.2579 mL	1.2896 mL	2.5792 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: ≥ 2.5 mg/mL (6.45 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (6.45 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (6.45 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Tioconazole (UK-20349) is an antifungal imidazole derivative with broad spectrum activity. Tioconazole has inhibitory active against several dermatophytes and several yeasts with MIC_{50s} <3.12 mg/L and <9 mg/L, respectively^[1].

IC₅₀ & Target

Antifungal^[1].

REFERENCES

[1]. S P Clissold, et al. Tioconazole. A review of its antimicrobial activity and therapeutic use in superficial mycoses. *Drugs*. 1986 Jan;31(1):29-51.

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

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