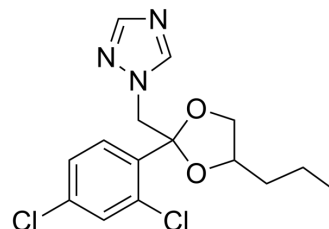


Propiconazole

Cat. No.:	HY-B0847		
CAS No.:	60207-90-1		
Molecular Formula:	C ₁₅ H ₁₇ Cl ₂ N ₃ O ₂		
Molecular Weight:	342.22		
Target:	Fungal; Reactive Oxygen Species		
Pathway:	Anti-infection; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
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 : 100 mg/mL (292.21 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.9221 mL	14.6105 mL	29.2210 mL
		5 mM		0.5844 mL	2.9221 mL	5.8442 mL
10 mM			0.2922 mL	1.4610 mL	2.9221 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.31 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.31 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.31 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Propiconazole is an orally active N-substituted triazole used as a fungicide. Propiconazole is a mouse liver hepatotoxicant and a hepatocarcinogen that has adverse reproductive and developmental toxicities in experimental animals ^{[1][2]} .
In Vivo	Propiconazole (150 mg/kg, gavage for 14 days) can induce specific hepatic P450 isoforms ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Adult male Sprague-Dawley rats ^[1] .
Dosage:	Gavage.
Administration:	10, 75, 150 mg/kg, gavage for 14 days.
Result:	In rat liver, propiconazole produced diffuse mild panlobular hepatocyte hypertrophy at the 150 mg/kg body weight/day dose.

CUSTOMER VALIDATION

- Food Chem Toxicol. 2022 Aug 8;168:113354.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Guobin Sun, et al. Propiconazole-induced cytochrome P450 gene expression and enzymatic activities in rat and mouse liver. Toxicol Lett. 2005 Feb 15;155(2):277-87.
- [2]. ShuangLi, et al. Single and Combined Cytotoxicity Research of Propiconazole and Nano-zinc Oxide on the NIH/3T3 Cell. Procedia Environmental Sciences Volume 18, 2013, Pages 100-105.

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

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