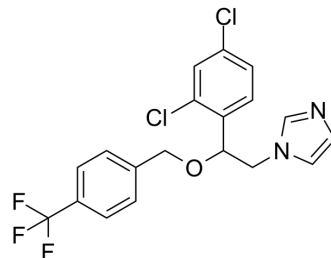


Dapaconazole

Cat. No.:	HY-16719		
CAS No.:	1269726-67-1		
Molecular Formula:	C ₁₉ H ₁₅ Cl ₂ F ₃ N ₂ O		
Molecular Weight:	415.24		
Target:	Cytochrome P450		
Pathway:	Metabolic Enzyme/Protease		
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 : 100 mg/mL (240.82 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.4082 mL	12.0412 mL	24.0825 mL
		5 mM	0.4816 mL	2.4082 mL	4.8165 mL
10 mM		0.2408 mL	1.2041 mL	2.4082 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 (6.02 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.02 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.02 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Dapaconazole, as an antifungal agent, inhibits sterol 14α-demethylase cytochrome P450 activity with an IC ₅₀ of 1.4 μM ^[1] .
IC₅₀ & Target	Cytochrome P450 (CYP26) 1.4 μM (IC ₅₀)
In Vitro	Dapaconazole inhibits sterol 14α-demethylase cytochrome P450 activity with an IC ₅₀ of 1.4 ± 0.3 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Dapaconazole (20 mg/kg; p.o.) shows that the bioavailability is 97.3 %^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male beagle dogs ^[1]
Dosage:	20 mg/kg (Pharmacokinetic Analysis)
Administration:	P.o.
Result:	Showed that the bioavailability was 97.3 %.

REFERENCES

[1]. Juliana SP, et al. Pharmacokinetics of Dapaconazole, A Novel Antifungal Agent, in Beagle Dogs and Inhibition of Cytochrome P450 Family 51. J Eur Acad Dermatol Venereol. 2018 Jun 10.

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

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