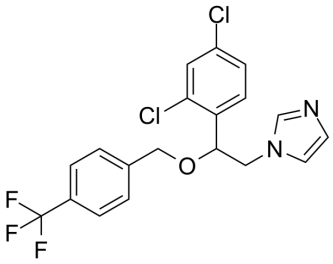
Dapaconazole

Cat. No.:	HY-16719
CAS No.:	1269726-67-1
Molecular Formula:	$C_{19}H_{15}Cl_2F_3N_2O$
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



BIOLOGICAL ACTIVITY

Description	Dapaconazole, as an antifungal agent, inhibits sterol 14α-demethylase cytochrome P450 activity with an IC_{50} of 1.4 μM[1].
IC_{50} & 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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