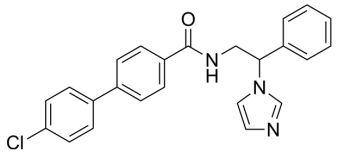
SDZ285428

Cat. No.:	HY-108938
CAS No.:	174262-13-6
Molecular Formula:	$C_{24}H_{20}ClN_3O$
Molecular Weight:	401.89
Target:	Cytochrome P450; Fungal; Parasite
Pathway:	Metabolic Enzyme/Protease; Anti-infection
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 : 50 mg/mL (124.41 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4882 mL	12.4412 mL	24.8824 mL
5 mM	0.4976 mL	2.4882 mL	4.9765 mL
10 mM	0.2488 mL	1.2441 mL	2.4882 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SDZ285428 is a CYP51 inhibitor. SDZ285428 inhibits Trypanosoma cruzi (TC) CYP51 with I/E2 <1 (5 min) and I/E2=9 (1 h). SDZ285428 inhibits Trypanosoma brucei (TB) CYP51 with I/E2 <1 (5 min) and I/E2=35 (1 h)[1].

IC_{50} & Target		
	CYP51	Trypanosoma

In Vivo

Specific inhibition of protozoan CYP51 can potentially provide treatment for human trypanosomiases[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Lepesheva GI, et al. CYP51: A major drug target in the cytochrome P450 superfamily. Lipids. 2008 Dec;43(12):1117-25.

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