Oteseconazole

Cat. No.: HY-17643

CAS No.: 1340593-59-0

Molecular Formula: $C_{23}H_{16}F_7N_5O_2$

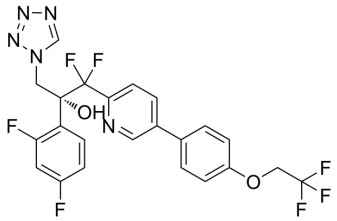
Molecular Weight: 527.39

Target: Fungal; Cytochrome P450

Pathway: Anti-infection; 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 : 250 mg/mL (474.03 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.8961 mL	9.4806 mL	18.9613 mL
	5 mM	0.3792 mL	1.8961 mL	3.7923 mL
	10 mM	0.1896 mL	0.9481 mL	1.8961 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.25 mg/mL (4.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.25 mg/mL (4.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Oteseconazole (VT-1161) is an orally active anti-fungal agent, potently binds to and inhibits Candida albicans CYP51 (K_d, <39 nM), shows no obvious effect on human CYP51[1][2].

IC_{50} & Target

CYP51

REFERENCES

[1]. Warrilow AG, et al. The clinical candidate VT-1161 is a highly potent inhibitor of Candida albicans CYP51 but fails to bind the human enzyme. Antimicrob Agents Chemother. 2014 Dec;58(12):7121-7.

[2]. Garvey EP, et al. VT-1161 dosed once daily or once weekly exhibits potent efficacy in treatment of dermatophytosis in a guinea pig model. Antimicrob Agents Chemother. 2015 Apr;59(4):1992-7.

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