Product Data Sheet

Oteseconazole

Molecular Formula:

Cat. No.: HY-17643 CAS No.: 1340593-59-0

Molecular Weight: 527.39

Target: Fungal; Cytochrome P450

Pathway: Anti-infection; Metabolic Enzyme/Protease

 $\mathsf{C}_{23}\mathsf{H}_{16}\mathsf{F}_7\mathsf{N}_5\mathsf{O}_2$

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 a potent and orally active anti-fungal agent. Oteseconazole potently binds to and inhibits Candida albicans cytochrome P45051 (CYP51) activity ($K_d \le 39 \text{ nM}$), shows no obvious effect on human CYP51. Oteseconazole also can be used for the research of dermatophytes ^{[1][2]} .			
IC ₅₀ & Target	CYP51	CYP2C9 99 μM (IC ₅₀)	CYP2C19 72 μM (IC ₅₀)	
In Vivo	Oteseconazole (5-25 mg/kg, p.o., daily, 9 days) effectively inhibits mycological growth and improves the clinical signs of infection in guinea pigs infected with T. mentagrophytes ^[2] .			

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

REFERENCES

[1]. 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.

[2]. 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.

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

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