Quilseconazole

Cat. No.: HY-109040

CAS No.: 1340593-70-5

Molecular Formula: $C_{22}H_{14}F_7N_5O_2$

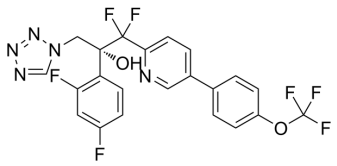
Molecular Weight: 513.37

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 : 100 mg/mL (194.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9479 mL	9.7396 mL	19.4791 mL
	5 mM	0.3896 mL	1.9479 mL	3.8958 mL
	10 mM	0.1948 mL	0.9740 mL	1.9479 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: ≥ 2.5 mg/mL (4.87 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.87 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Quilseconazole (VT-1129) is a potent, orally active fungal Cyp51 (lanosterol 14-α-demethylase) inhibitor, binds tightly to cryptococcal CYP51, but weakly inhibits humans CYP450 enzymes[1].

IC_{50} & Target

CYP51

REFERENCES

[1]. Lockhart SR, et al. The Investigational Fungal Cyp51 Inhibitor VT-1129 Demonstrates Potent In Vitro Activity against Cryptococcus neoformans and Cryptococcus gattii.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA