

Product Name : PC1244

Synonyms : PC 1244

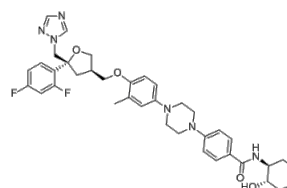
Cat No. : M13180

CAS Number : 2046185-88-8

Molecular Formula : C₃₈H₄₄F₂N₆O₄

Formula Weight : 686.81

Chemical Name : 4-(4-(4-(((3R,5R)-5-((1H-1,2,4-triazol-1-yl)methyl)-5-(2,4-difluorophenyl)tetrahydrofuran-3-yl)methoxy)-3-methylphenyl)piperazin-1-yl)-N-((1S,2S)-2-hydroxycyclohexyl)benzamide



Description : PC1244 is a long acting fungicidal azole that targets A. fumigatus CYP51A and CYP51B, inhibits ergosterol synthesis in A. fumigatus with IC₅₀ of 8 nM; demonstrates potent antifungal activities against clinical A. fumigatus isolates with a MIC range of 0.016-0.25 ug/mL; PC1244 is also effective against a broad spectrum of pathogenic fungi (MIC= <0.0078-2 µg/ml), especially on Aspergillus terreus, Trichophyton rubrum, Candida albicans; shows fungicidal activity (MFC=2 µg/ml), 8-fold more potent than voriconazole; shows superior in vivo effects in immunocompromised mice.

Pathway : Microbiology/Virology

Target : Fungal

Receptor : Fungal

Solubility : —

SMILES : —

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Colley T, et al. Antimicrob Agents Chemother. 2018 Feb 12. pii: AAC.01941-17.