

Itraconazole

Catalog No: tcsc2127



Available Sizes

Size: 100mg

Size: 500mg



Specifications

CAS No:

84625-61-6

Formula:

$C_{35}H_{38}Cl_2N_8O_4$

Pathway:

Anti-infection;Autophagy

Target:

Fungal;Autophagy

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 7.3 mg/mL (10.35 mM)

Alternative Names:

R51211

Observed Molecular Weight:

705.63

Product Description

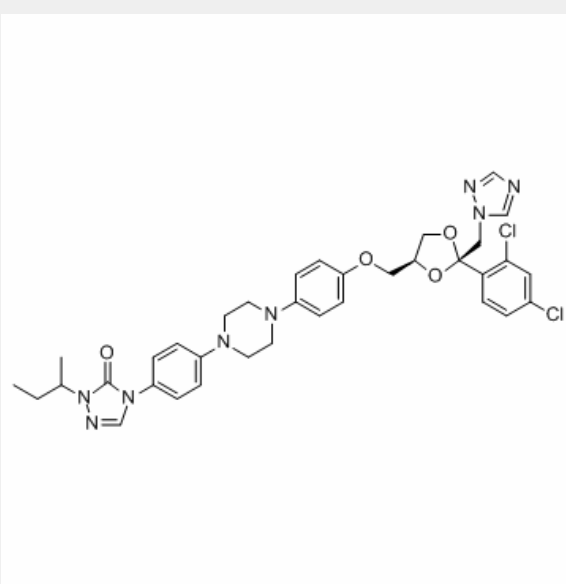
Itraconazole is a triazole antifungal agent.

IC50 Value: N/A

Target: antifungal

in vitro: Itraconazole is pharmacologically distinct from other azole antifungal agents in that it is the only inhibitor in this class that has been shown to inhibit both the hedgehog signaling pathway and angiogenesis[1, 2]. These distinct activities are unrelated to inhibition of the cytochrome P450 lanosterol 14 alpha-demethylase and the exact molecular targets responsible remain unidentified. Functionally, the antiangiogenic activity of itraconazole has been shown to be linked to inhibition of glycosylation, VEGFR2 phosphorylation and cholesterol biosynthesis pathways [2]. Evidence suggests the structural determinants for inhibition of hedgehog signaling by itraconazole are recognizably different from those associated with antiangiogenic activity [3].

in vivo: Nine volunteers were given either 200 mg itraconazole, or matched placebo orally once daily for 4 days. On day 4, itraconazole increased the area under the midazolam concentration-time curve from 10 to 15 times (p



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