LKT Laboratories, Inc.

Itraconazole

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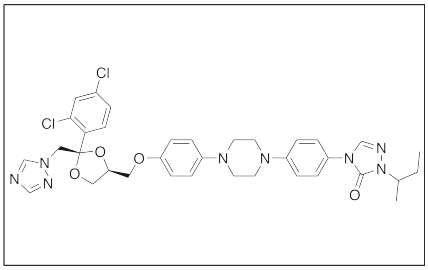
Product Information

Product ID I7870
CAS No. 84625-61-6
Chemical Name 4-[4-[4-[4-[[2-(2,4-Dichlorophenyl)-2-(1H-1,2,4- triazol-1-ylmethyl) -1,3-dioxolan-4-yl]methoxy]- phenyl]-1-peperazinyl]phenyl]-2,4-dihydro-2-(1- methylpropyl)-3H-1,2,4-triazol-3one
Synonym Oriconazole, Itrizole, Sporanox, Triasporin



Formula $C_{35}H_{38}Cl_2N_8O_4$
Formula Wt. 705.63
Melting Point 166.2°C
Purity ≥98%
Solubility Soluble in chloroform (50mg/mL). Practically insoluble in water and dilute acidic solutions. DMSO:4mg/mL
Store Temp Ambient
Ship Temp Ambient

Bulk quanitites available upon request

Product ID	Size
I7870	50 mg
I7870	100 mg
I7870	250 mg
I7870	1 g

Description Itraconazole is a triazole antifungal that also exhibits anti-angiogenic and anticancer chemotherapeutic activities. Itraconazole inhibits synthesis of ergosterol, preventing fungal cell wall formation in *Aspergillus*. Itraconazole also inhibits hedgehog (Hh) signaling through activity on Smo, preventing growth of medulloblastoma tumors in vivo. Additionally, itraconazole inhibits VEGF-induced angiogenesis in other animal models. This compound also induces G1 phase cell cycle arrest in endothelial cells. Most of the biological activity of itraconazole is likely through the inhibition of 14-α demethylase.

References

Kim J, Tang JY, Gong R, et al. Itraconazole, a commonly used antifungal that inhibits Hedgehog pathway activity and cancer growth. Cancer Cell. 2010 Apr 13;17(4):388-99. PMID: 20385363.

Chong CR, Xu J, Lu J, et al. Inhibition of angiogenesis by the antifungal drug itraconazole. ACS Chem Biol. 2007 Apr 24;2(4):263 -70. PMID: 17432820.