



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-yl)methyl]-1,3-dioxolan-4-yl]methoxy]-phenyl]-1-piperazinyl]phenyl]-2,4-dihydro-2-(1-methylpropyl)-3H-1,2,4-triazol-3-one

**Synonym** Oriconazole, Itrizole, Sporanox, Triasporin

**Formula** C<sub>35</sub>H<sub>38</sub>Cl<sub>2</sub>N<sub>8</sub>O<sub>4</sub>

**Formula Wt.** 705.63

**Melting Point** 166.2 °C

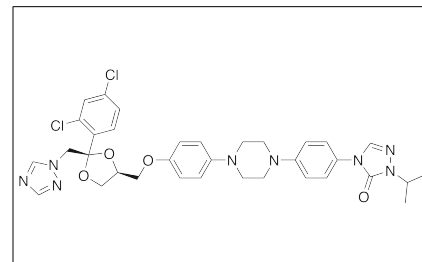
**Purity** ≥98%

**Solubility** Soluble in chloroform (50mg/mL). Practically insoluble in water and dilute acidic solutions. DMSO:4mg/mL

**Store Temp** Ambient

**Ship Temp** Ambient

**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.



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
I7870	50 mg	\$60.70
I7870	100 mg	\$106.10
I7870	250 mg	\$212.10
I7870	1 g	\$628.70

**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.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.