LKT Laboratories, Inc.

# Fluconazole

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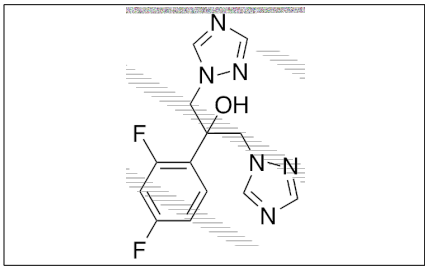
## Product Information

**Product ID** F4682
**CAS No.** 86386-73-4
**Chemical Name** α-(2,4-Difluorophenyl)-α-(1H-1,2,4-triazol-1- ylmethyl)-1H-1,2,4-triazole-1-ethanol
**Synonym** Biozolene, Diflucan, Elazor, Triflucan



**Formula** $C_{13}H_{12}F_2N_6O$
**Formula Wt.** 306.27
**Melting Point** 138-140°C
**Purity** ≥98%
**Solubility** Slightly soluble in water 1mg/mL. Soluble in ethanol (61mg/mL), ethyl acetate and methanol. DMSO to 100 mM.

## Pricing and Availability

***Bulk quanitites available upon request***

| Product ID | Size | List Price |
|---|---|---|
| F4682 | 500 mg | $71.50 |
| F4682 | 1 g | $122.70 |
| F4682 | 5 g | $360.80 |

**Store Temp** Ambient
**Ship Temp** Ambient
**Description** Fluconazole is a triazole antifungal compound that inhibits fungal 14-α demethylase. Fluconazole is especially active against *Candida* and *Cryptococcus*.

**References**

Cuenca-Estrella M. Antifungal agents in the treatment of systemic infections: Relevance of mechanism of action, activity profile and resistances. Rev Esp Quimioter. 2010 Dec;23(4):169-76. PMID: 21191554.

Mansfield BE, Oltean HN, Oliver BG, et al. Azole drugs are imported by facilitated diffusion in Candida albicans and other pathogenic fungi. PLoS Pathog. 2010 Sep 30;6(9):e1001126. PMID: 20941354.

Matsumoto Y, Miyazaki S, Fukunaga DH, et al. Quantitative evaluation of cryptococcal pathogenesis and antifungal drugs using a silkworm infection model with Cryptococcus neoformans. J Appl Microbiol. 2012 Jan;112(1):138-146. PMID: 22040451.