



LKT Laboratories, Inc.

## Fluconazole

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### Product Information

**Product ID** F4682

**CAS No.** 86386-73-4

**Chemical Name**  $\alpha$ -(2,4-Difluorophenyl)- $\alpha$ -(1H-1,2,4-triazol-1-ylmethyl)-1H-1,2,4-triazole-1-ethanol

**Synonym** Biozolene, Diflucan, Elazor, Triflucan

**Formula** C<sub>13</sub>H<sub>12</sub>F<sub>2</sub>N<sub>6</sub>O

**Formula Wt.** 306.27

**Melting Point** 138-140 °C

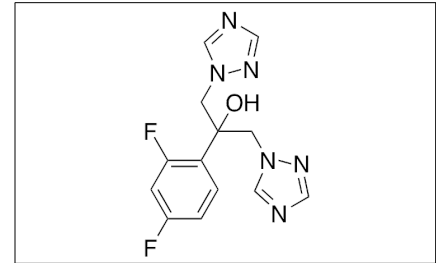
**Purity** ≥98%

**Solubility** Slightly soluble in water  
1mg/mL. Soluble in ethanol  
(61mg/mL), ethyl acetate and  
methanol. DMSO to 100 mM.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Fluconazole is a triazole antifungal compound that inhibits fungal 14- $\alpha$  demethylase. Fluconazole is especially active against *Candida* and *Cryptococcus*.



**Bulk quantities available upon request**

Product ID	Size
F4682	500 mg
F4682	1 g
F4682	5 g

**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.

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