

# Fluconazole (hydrate)

Catalog No: tcsc1836



## Available Sizes

**Size:** 100mg

**Size:** 500mg



## Specifications

**CAS No:**

155347-36-7

**Formula:**

$C_{13}H_{14}F_2N_6O_2$

**Pathway:**

Anti-infection

**Target:**

Fungal

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

UK 49858 hydrate

**Observed Molecular Weight:**

324.29

## Product Description

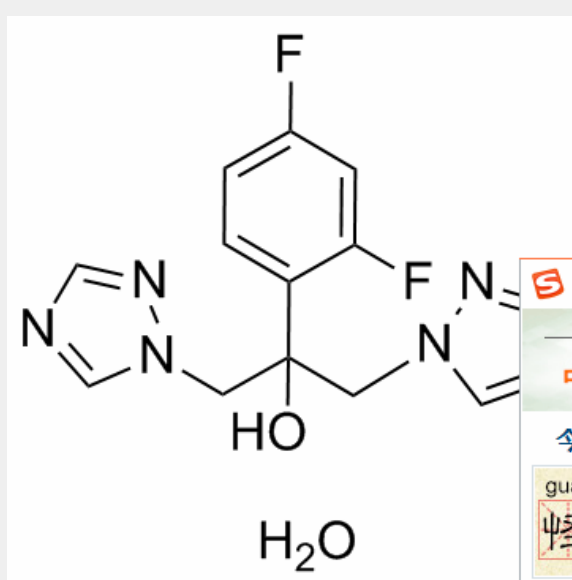
Fluconazole (hydrate) is a triazole antifungal drug used in the treatment and prevention of superficial and systemic fungal infections.

Target: Antifungal

Fluconazole (hydrate) is the hydrate salt form of fluconazole, which is a triazole antifungal intended for oral treatment of superficial and systemic mycoses. In tests done in standard mycological media, the compound had minimal inhibitory concentrations against pathogenic *Candida* species that were usually in excess of 100 mg/l. Fluconazole inhibited branching and hyphal development in *C. albicans* at concentrations as low as  $10^{-6}$  M (0.3 mg/l), but miconazole and ketoconazole were still active in these tests at concentrations 100 times lower than this [1]. Oral fluconazole was not associated with a significantly increased risk of birth defects overall or of 14 of the 15 specific birth defects of previous concern. Fluconazole exposure may confer an increased risk of tetralogy of Fallot [2]. Fluconazole is predicted to be ineffective against *Cryptococcus gattii* in the koala as a sole therapeutic agent administered at 10 mg/kg p.o. every 12 h [3].

Clinical indications: Balanitis; Candida infection; Cryptococcus infection; Cryptococcus neoformans meningitis; Dermatomycosis; Female genital tract infection; Fungal infection; Fungal respiratory tract infection; Fungal urinary tract infection; Prophylaxis; Tinea capitis; Tinea corporis; Tinea cruris; Tinea pedis .

Toxicity: Symptoms of overdose include hallucinations and paranoid behavior.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!