

Certificate of Analysis

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Product Name: Fluconazole

Catalog No.: 3764

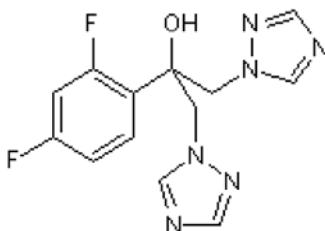
Batch No.: 1

CAS Number: 86386-73-4

IUPAC Name: 2-(2,4-Difluorophenyl)-1,3-bis(1*H*-1,2,4-triazol-1-yl)propan-2-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₂F₂N₆O
Batch Molecular Weight: 306.27
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.98	3.95	27.44
Found	50.93	3.92	27.6

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Triazole antifungal agent. Effective against Candida strains in vitro and in vivo.

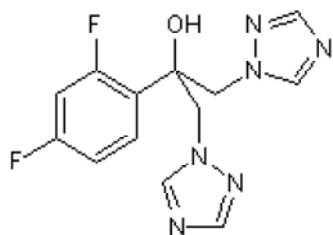
Physical and Chemical Properties:

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Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Licensing Information:

Sold for research purposes under agreement from Pfizer Inc.

References:

Saag and Dismukes (1988) Azole antifungal agents: emphasis on new triazoles. Antimicrob.Agents Chemother. **32** 1. PMID: 2831809.

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