

Product Name: Fluconazole Revision Date: 12/05/2024

Product Data Sheet

Fluconazole

Cat. No.: B2094

CAS No.: 86386-73-4

Formula: C13H12F2N6O

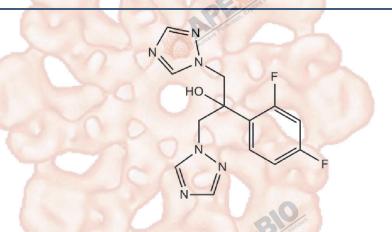
M.Wt: 306.27

Synonyms:

Target: Microbiology & Virology

Pathway: Antibiotic

Storage: Store at -20°C



Solvent & Solubility

insoluble in H2O; \geq 10.9 mg/mL in DMSO; \geq 60.9 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	3.2651 mL	16.3255 mL	32.6509 mL
	5 mM	0.6530 mL	3.2651 mL	6.5302 mL
	10 mM	0.3265 mL	1.6325 mL	3.2651 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Triazole antifungal agent		
	E Contraction of the Contraction	
Cell Viability Assay	The state of the s	
Cell Line: (2000)	The Candida albicans reference strain SC5314	
Preparation method:	The solubility of this compound in DMSO is >10.9mg/mL. General tips for	
	obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes	
	and/or shake it in the ultrasonic bath for a while. Stock solution can be stored	
	below -20°C for several months.	
Reacting conditions:	10 μg/ml; dissolved in Milli-Q water	
	Cell Viability Assay Cell Line: Preparation method: Reacting conditions:	

	Applications:	In wild-type Candida albicans SC5314 cells, fluconazole (10 µg/ml) and doxycycline (50 µg/ml) inhibited cell growth in a dose dependent way.			
	Animal experiment	Animal experiment			
In Vivo	Animal models:	C. albicans-infected p47phox-/- knockout mice			
	Dosage form:	80 mg/kg/day for 13 days; diluted in saline; intraperitoneal injection			
	Applications:	In C. albicans-infected p47phox-/- knockout mice, fluconazole significantly reduced splenic counts of C. albicans (P =0.008).			
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may			
		slightly differ with the theoretical value. This is caused by an experimental			
		system error and it is normal.			

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Alessandro Fiori and Patrick Van Dijck. Potent Synergistic Effect of Doxycycline with Fluconazole against Candida albicans Is Mediated by Interference with Iron Homeostasis. Antimicrob Agents Chemother. 2012 Jul; 56(7): 3785–3796.

A Paragonal Report In the

[2]. Justina Y. Ju, Cynthia Polhamus, Kieren A. Marr, et al. Efficacies of Fluconazole, Caspofungin, and Amphotericin B in Candida glabrata-Infected p47phox-/- Knockout Mice. Antimicrob Agents Chemother. 2002 May; 46(5): 1240–1245.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.
Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com





Labor to De Indian Labor the Laboration









