

Product Name: Posaconazole Revision Date: 01/10/2021

Product Data Sheet

Posaconazole

Cat. No.: A1718

CAS No.: 171228-49-2

Formula: C37H42F2N8O4

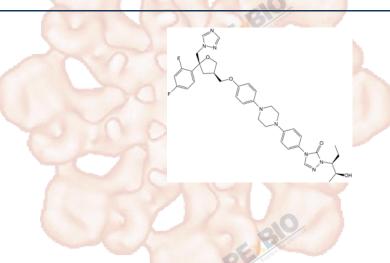
M.Wt: 700.78

Synonyms:

Target: Metabolism

Pathway: C14a demethylase

Storage: Store at -20°C



Solvent & Solubility

 \geqslant 35.04 mg/mL in DMSO; insoluble in H2O; \geqslant 2.55 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	1.4270 mL	7.1349 mL	14.2698 mL
	5 mM	0.2854 mL	1.4270 mL	2.8540 mL
	10 mM	0.1427 mL	0.7135 mL	1.4270 mL

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

Biological Activity

Reacting conditions:

Shortsummary	Sterol C14a demethylase inhibitor		
IC ₅₀ & Target	0.25 nM (C14a demethylase)		
	Cell Viability Assay	A Company of the Comp	
	Cell Line:	25 strains of Coccidioides immitis	
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining	
In Vitro		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.	

	Applications:	Posaconazole was tested in RPMI 1640 with L-glutamine and		
	morpholinepropanesulfonic acid buffer at a concentration of 165 mM. The final			
	concentration of the drug was 0.015 to 8 μg/ml. The MICs were re			
	48 h. The posaconazole MICs ranged from 0.25 to 1 μg/ml, and mean posaconazole MIC was 0.5 μg/ml. The posaconazole MIC			
	210	of the isolates tested were inhibited (MIC50) and the MIC90 were 0.5 and 1		
	OE Production	μg/ml, respectively.		
	Animal experiment	periment		
	Animal models:	Male BALB/c mice		
	Dosage form:	Oral administration, 5, 15, or 30 mg/kg twice per day, for 7 days		
	Applications:	Mice were rendered neutropenic with single doses of 5-fluorouracil and with		
		cyclophosphamide one day before infection. This treatment reduced the neutrophil count. Mice were infected intravenously using a 0.2-ml volume of the		
		inoculums. The antifungal agent treatment began 1 day after infection. The		
In Vivo	alo	survival of posaconazole recipients increased significantly in a		
	OE Jacobia	dose-dependent manner over that of the controls, with 60 to 83% survival at the		
	Check To Harde	30-mg/kg twice-daily dose. Posaconazole doses of 15 and 30 mg/kg		
		significantly lowered counts in tissue. Posaconazole at a dose of 30 mg/kg		
		reduced many counts to undetectable levels.		
	Other notes:	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] González G M, Tijerina R, Najvar L K, et al. In vitro and in vivo activities of posaconazole against Coccidioides immitis. Antimicrobial agents and chemotherapy, 2002, 46(5): 1352-1356.

APE BIO

[2] Sun Q N, Najvar L K, Bocanegra R, et al. In vivo activity of posaconazole against Mucor spp. in an immunosuppressed-mouse model. Antimicrobial agents and chemotherapy, 2002, 46(7): 2310-2312.

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









