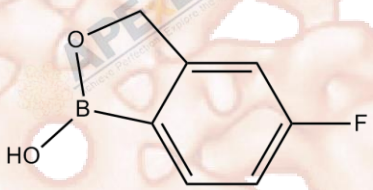
Product Data Sheet

AN-2690



Cat. No.:	A3177
CAS No.:	174671-46-6
Formula:	C7H6BFO2
M.Wt:	151.93
Synonyms:	Tavaborole;AN2690;AN 2690
Target:	Microbiology & Virology
Pathway:	Antibiotic
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾3.72 mg/mL in H2O with gentle warming; ⩾7.05 mg/mL in DMSO; ⩾88.6 mg/mL in EtOH

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	6.5820 mL	32.9099 mL	65.8198 mL
5 mM	1.3164 mL	6.5820 mL	13.1640 mL
10 mM	0.6582 mL	3.2910 mL	6.5820 mL

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

Biological Activity

Shortsummary	Antifungal agent
IC_{50} & Target	

In Vitro

Cell Viability Assay

Preparation method:	This compound is soluble in DMSO. 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:	0.25 ~ 1 μM
Applications:	AN-2690 have broad antifungal activities over a series of fungi. Moreover, it

		was shown that AN-2690 potently inhibited 2 fungi in particular, i.e. C. neoformans and A. fumigatus.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

1. Manhas R, Tandon S, et al. "Leishmania parasites are inhibited by the benzoxaborole AN2690 targeting leucyl-tRNA synthetase." Antimicrob Agents Chemother. 2018 Jun 25. pii: AAC.00079-18.PMID:29941647

See more customer validations on www.apexbt.com.

References

[1]. Baker SJ, Zhang YK, Akama T, Lau A, Zhou H, Hernandez V, Mao W, Alley MR, Sanders V, Plattner JJ. Discovery of a new boron-containing antifungal agent, 5-fluoro-1,3-dihydro-1-hydroxy-2,1- benzoxaborole (AN2690), for the potential treatment of onychomycosis. J Med Chem. 2006;49(15):4447-50.

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