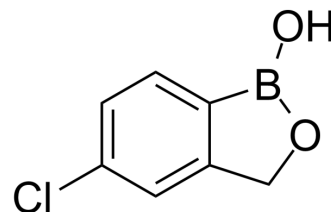


## AN2718

Cat. No.:	HY-100527
CAS No.:	174672-06-1
Molecular Formula:	C <sub>7</sub> H <sub>6</sub> BClO <sub>2</sub>
Molecular Weight:	168.39
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 50 mg/mL (296.93 mM)					
	* "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	5.9386 mL	29.6930 mL	59.3859 mL
			5 mM	1.1877 mL	5.9386 mL	11.8772 mL
10 mM			0.5939 mL	2.9693 mL	5.9386 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (12.35 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (12.35 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (12.35 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	AN2718 inhibits fungal growth by blocking protein synthesis using the oxaborole tRNA trapping (OBORT) mechanism.
IC <sub>50</sub> & Target	Fungal <sup>[1]</sup> .
In Vitro	AN2718 inhibits cytoplasmic LeuRS from molds, <i>A. fumigatus</i> , and from yeasts, <i>C. albicans</i> , with an IC <sub>50</sub> of 2 μM and 4.2 μM, respectively. AN2718 has good MIC90 activity against the dermatophytes, <i>T. rubrum</i> and <i>T. mentagrophytes</i> <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Seiradake, et al. Antifungal activity and mechanism of action of a benzoxaborole, AN2718, which is in development for the treatment of tinea pedis. 48th Annual ICAAC/46th Annual IDSA (2008).

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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