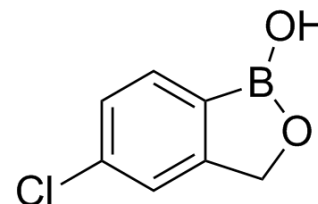


AN2718

Cat. No.:	HY-100527		
CAS No.:	174672-06-1		
Molecular Formula:	C ₇ H ₆ BClO ₂		
Molecular Weight:	168.39		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 250 mg/mL (1484.65 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

- 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
- 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
- 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.

IC₅₀ & Target

Fungal^[1].

In Vitro

AN2718 inhibits cytoplasmic LeuRS from molds, *A. fumigatus*, and from yeasts, *C. albicans*, with an IC_{50} of 2 μ M and 4.2 μ M, respectively. AN2718 has good MIC90 activity against the dermatophytes, *T. rubrum* and *T. mentagrophytes*^[1]

REFERENCES

[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).

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

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