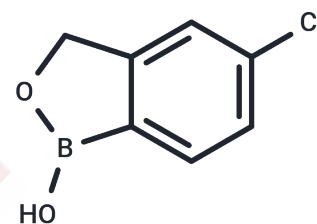


AN2718

Chemical Properties

CAS No. : 174672-06-1
 Formula: C₇H₆BClO₂
 Molecular Weight: 168.39
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	AN2718 inhibits protein synthesis through the OBORT mechanism and displays broad antifungal effectiveness.
Targets(IC50)	Antifungal
In vitro	AN2718 inhibits leucyl-tRN/A synthetase (LeuRS) from molds and yeasts (IC50s = 2 and 4.2 μM for <i>A. fumigatus</i> and <i>C. albicans</i> LeuRS, respectively)

Solubility Information

Solubility	DMSO: 247.5 mg/mL (1469.8 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (59.39 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (59.39 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.9386 mL	29.693 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
50 mM	0.1188 mL	0.5939 mL	1.1877 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Aditya K Gupta., et al. Investigation of Al drugs for onychomycosis. Expert Opin Investig Drugs. 2014 Jan;23(1):97-106.

Tang Y, Yang C, Liu C, et al. Development of an effective meropenem/KPC-2 inhibitor combination to combat infections caused by carbapenem-resistant K. pneumoniae. International Journal of Antimicrobial Agents. 2024: 107268.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481