

Product Name: Anidulafungin Revision Date: 05/15/2024

## **Product Data Sheet**

# Anidulafungin

Cat. No.:	B1224
CAS No.:	166663-25-8
Formula:	C58H73N7O17
M.Wt:	1140.24
Synonyms:	
Target:	Microbiology & Virology
Pathway:	Antibiotic
Storage:	Store at -20°C

### Solvent & Solubility

In Vitro

				Ame			
	insoluble in EtOH; in	insoluble in EtOH; insoluble in H2O; $\geq$ 20.8 mg/mL in DMSO					
In Vitro	Preparing	Mass Solvent Concentration	1mg	5mg	10mg		
	Stock Solutions	1 mM	0.8770 mL	4.3850 mL	8.7701 mL		
	E-BIO	5 mM	0.1754 mL	0.8770 mL	1.7540 mL		
		10 mM	0.0877 mL	0.4385 mL	0.8770 mL		
-	Please refer to the solubility information to select the appropriate solvent.						
Biologica	al Activity						
Shortsummary	Antifungal drug						
IC <sub>50</sub> & Target				10			

Cell Viability Assay	SEL Transmin
Preparation method:	The solubility of this compound in DMSO is > 10 mM. 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:	48 hrs
Applications:	Anidulafungin potently inhibited Aspergillus species, with a MEC90 value of
	1   www.apexbt.com

		0.02 mg/mL. The ranges of MIC and MEC of Anidulafungin against A.		
		fumigatus, A. flavus, A. niger, A. glaucus group and A. versicolor were 0.00125		
		$\sim 0.005~\mu$ g/mL and 0.005 $\sim 10.24~\mu$ g/mL, respectively.		
	Animal experiment			
In Vivo	Animal models:	Mice infected with strains FMR 9965, FMR 8756, FMR 9960, FMR 10084 or		
	Dosage form:	1, 5 or 10 mg/kg; i.p.; q.d., for 7 days		
	Applications:	In Mice infected with strains FMR 9965, FMR 8756, FMR 9960, FMR 10084 or		
		FMR 9966 of Aspergillus flavus, Anidulafungin at the doses of 5 and 10 mg/kg		
		significantly prolonged survival. There were no substantial difference between		
		the doses of 5 and 10 mg/kg. Moreover, in spleens and kidneys, Anidulafungin		
		significantly reduced the fungal load in a dose-dependent manner. According to		
		the bioassay results, at day 5 of treatment, the Anidulafungin serum levels were		
	<u>.</u>	beyond the corresponding minimum effective concentrations of all strains.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	Region, Enland	slightly differ with the theoretical value. This is caused by an experimental		
	Achere Par	system error and it is normal.		

#### **Product Citations**

1. Hoyer AR, Johnson CJ, et al. "Echinocandin Treatment of Candida albicans Biofilms Enhances Neutrophil Extracellular Trap Formation." Antimicrob Agents Chemother. 2018 Aug 27;62(9). pii: e00797-18.PMID:29987146

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[1]. Zhanel GG1, Karlowsky JA, Harding GA, Balko TV, Zelenitsky SA, Friesen M, Kabani A, Turik M, Hoban DJ. In vitro activity of a new semisynthetic echinocandin, LY-303366, against systemic isolates of Candida species, Cryptococcus neoformans, Blastomyces dermatitidis, and Aspergillus species. Antimicrob Agents Chemother. 1997 Apr;41(4):863-5.

[2]. Calvo E, Pastor FJ, Mayayo E, Salas V, Guarro J. In vitro activity and in vivo efficacy of anidulafungin in murine infections by Aspergillus flavus. Antimicrob Agents Chemother. 2011 Mar;55(3):1290-2.





#### 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

2 | www.apexbt.com

of the product, follow the storage recommendations on the product data sheet.





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