

# Anidulafungin

## Catalog No: tcsc1824



### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



### Specifications

**CAS No:**  
166663-25-8

**Formula:**  
 $C_{58}H_{73}N_7O_{17}$

**Pathway:**  
Anti-infection

**Target:**  
Fungal

**Purity / Grade:**  
>98%

**Solubility:**  
DMSO :  $\geq 30$  mg/mL (26.31 mM)

**Alternative Names:**  
LY303366

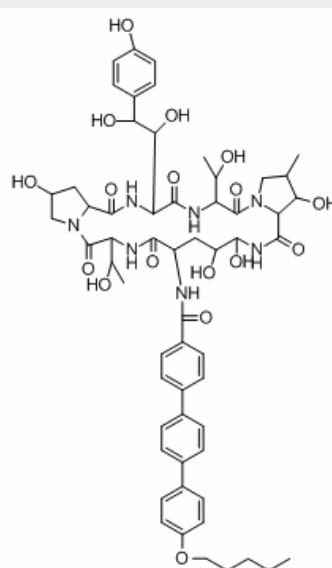
**Observed Molecular Weight:**  
1140.24

### Product Description

Anidulafungin is a new semisynthetic echinocandin with **antifungal** potency.

IC50 & Target: Antifungal<sup>[1]</sup>

**In Vitro:** Anidulafungin (LY-303366) has MICs of  $\leq 0.32$   $\mu\text{g/mL}$  for all *Candida albicans* (n=99), *Candida glabrata* (n=18), and *Candida tropicalis* (n=10) isolates tested. Anidulafungin is also active against *Aspergillus* species (minimum effective concentration at which 90% of the isolates are inhibited, 0.02  $\mu\text{g/mL}$ ) (n=20), is less active against *Candida parapsilosis* (MIC at which 90% of the isolates are inhibited [MIC90], 5.12  $\mu\text{g/mL}$ ) (n=10), and is inactive against *C. neoformans* (MIC90  $>10.24$   $\mu\text{g/mL}$ ) (n=15) and *B. dermatitidis* (MIC90, 16  $\mu\text{g/mL}$ ) (n=29). The MICs of Fluconazole for three strains of *C. tropicalis*, seven strains of *C. glabrata*, and two strains of *Candida krusei* are  $\geq 16$   $\mu\text{g/mL}$ . The MICs of Anidulafungin for 11 of these 12 strains range from 0.08 to 0.32 mg/mL. The twelfth strain is a *C. krusei* strain (Fluconazole MIC, 32  $\mu\text{g/mL}$ ) for which the Anidulafungin MIC is 1.28 mg/mL. The MIC at which 90% of the isolates are inhibited (MIC90) for these 12 strains is 0.32  $\mu\text{g/mL}$ . The Anidulafungin MIC90 for the remaining 18 *C. glabrata* isolates and *C. tropicalis* isolates for which the Fluconazole MICs are  $\geq 8$   $\mu\text{g/mL}$  is also 0.32 mg/mL. Anidulafungin appears equally active against *Candida* species for which the fluconazole MICs are  $\geq 16$  mg/mL and against those for which the fluconazole MICs are  $\geq 8$   $\mu\text{g/mL}$ . Anidulafungin has significantly less activity against *C. neoformans* and *B. dermatitidis* than against *C. albicans*, *C. glabrata*, and *C. tropicalis*. Ketoconazole and amphotericin B are the most active antifungal agents tested for both *C. neoformans* and *B. dermatitidis*. Anidulafungin demonstrated potent in vitro activity against *Aspergillus* species with a MEC90 of 0.02  $\mu\text{g/mL}$ . MICs of Anidulafungin for the control strain yeast isolates are 0.02  $\mu\text{g/mL}$  for *C. albicans* ATCC 90028, 0.16 mg/mL for *C. glabrata* ATCC 90030, and  $>10.24$   $\mu\text{g/mL}$  for *C. neoformans* ATCC 90112<sup>[1]</sup>. Strains selected with CD101 that have a 2-fold or greater CD101 MIC increase also have at least a 2-fold MIC increase for Anidulafungin (ANF) and/or Caspofungin (CSF)<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!