Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

# 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 : ≥ 30 mg/mL (26.31 mM)

**Alternative Names:**
LY303366

**Observed Molecular Weight:**
1140.24

## Product Description

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

IC50 & Target: Antifungal[1]

***In Vitro:*** Anidulafungin (LY-303366) has MICs of ≤0.32 μg/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 μg/mL) (n=20), is less active against *Candida parapsilosis* (MIC at which 90% of the isolates are inhibited [MIC90], 5.12 μg/mL) (n=10), and is inactive against C. *neoformans* (MIC90 >10.24 μg/mL) (n=15) and B. *dermatitidis* (MIC90, 16 μg/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 ≥16 μg/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 μg/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 μg/mL. The Anidulafungin MIC90 for the remaining 18 C. *glabrata* isolates and C. *tropicalis* isolates for which the Fluconazole MICs are ≥ 8 μg/mL is also 0.32 mg/mL. Anidulafungin appeares equally active against Candida species for which the fluconazole MICs are ≥16 mg/mL and against those for which the fluconazole MICs are ≥ 8 μg/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 μg/mL. MICs of Anidulafungin for the control strain yeast isolates are 0.02 μg/mL for C. *albicans* ATCC 90028, 0.16 mg/mL for C. glabrata ATCC 90030, and >10.24 μg/mL for C. *neoformans* ATCC 90112[1]. 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)[2].