

Product Name:	Anidulafungin
Product Number:	A041
CAS Number:	166663-25-8
Molecular Formula:	C ₅₈ H ₇₃ N ₇ O ₁₇
Molecular Weight:	1140.24
Form:	Powder
Appearance:	White crystalline powder
Source:	Semi-synthetic
Water Content (Karl Fischer):	Not more than 2.0%
pH:	6.5 - 7.5
Storage Conditions:	-20°C
Description:	Anidulafungin is a semi-synthetic echinocandin antifungal that is effective against <i>Candida</i> spp. Anidulafungin inhibits fungal cell wall synthesis. It is useful in pharmacotherapy and cell culture research applications.
Mechanism of Action:	Anidulafungin inhibits the enzyme (1→3)-β-D-glucan synthase, which is important in fungal cell wall synthesis.
Spectrum:	Anidulafungin is active against <i>Candida</i> and <i>Aspergillus</i> spp.
References:	<p>Harris MR and Coote PJ (2010) Combination of caspofungin or anidulafungin with antimicrobial peptides results in potent synergistic killing of <i>Candida albicans</i> and <i>Candida glabrata</i> <i>in vitro</i>. Int. J. Antimicrob. Agents 35(4):347-356 PMID 20106636</p> <p>Odds, FC, Brown AJ, Gow NA (2003) Antifungal Agents: Mechanisms of action. Trends Microbiol. 11(6): 272-279 PMID 12823944</p> <p>Pfaller, M A et al. <i>In vitro</i> activities of anidulafungin against more than 2,500 clinical isolates of <i>Candida</i> spp, including 315 isolates resistant to fluconazole" J. Clinical Microbiol. 43(11):5425-5427</p> <p>Salas V et al (2011) Anidulafungin in treatment of experimental invasive infection by : <i>in vitro</i> activity, (1→3)-beta-D-glucan and mannan serum levels, histopathological findings, and <i>in vivo</i> efficacy. Antimicrob. Agents Chemother. 55 (11):4985-4989 PMID 21844324</p> <p>Vazquez, JA and Sobel JD (2006) Anidulafungin: A novel echinocandin. Clin. Infect. Dis. 43(2):215-222 PMID 16779750</p>

