

Product Name:	Candididin
Product Number:	C002
CAS Number:	1403-17-4
Molecular Formula:	$C_{59}H_{84}N_2O_{18}$
Molecular Weight:	1109.30
Form:	Powder
Appearance:	Brown or Yellow Powder
Source:	<i>Streptomyces griseus</i>
Potency (on a dry basis):	≥1800 u/mg
Storage Conditions:	-20°C
Description:	Candididin is a fungicidal polyene antifungal agent derived from <i>Streptomyces griseus</i> , named for its high activity against the yeast <i>Candida albicans</i> .
Mechanism of Action:	Candididin alters membrane permeability by binding to ergosterol, a membrane sterol unique to fungi. As a result, an intracellular ion imbalance occurs leading to cell death.
Spectrum:	Candididin targets primarily fungi responsible for vulvovaginal candidiasis namely <i>Candida albicans</i> .
References:	Hammond, SM., and Kliger BN (1976) Mode of Action of the Polyene Antibiotic Candididin: Binding Factors in the Wall of <i>Candida albicans</i> . Antimicrob. Agents Chemother. 9(4): 561-568 Waksman, SA et al. (1965) Candididin and other polyenic antifungal antibiotics. Bulletin of the World Health Organization 33(2): 219-226