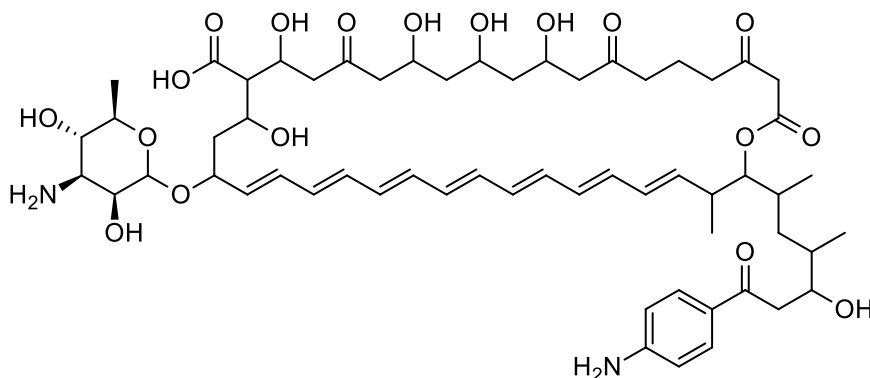


Candicidin complex

Code No.: **BIA-C1564**

Pack sizes: **1 mg, 5 mg**



Synonyms : Levorin

Specifications

CAS #	: 1403-17-4
Molecular Formula	: C₅₉H₈₄N₂O₁₈ (for Candicidin D)
Molecular Weight	: 1109.3
Source	: <i>Streptomyces griseus</i>
Appearance	: Dull yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Poorly soluble in most organic solvents. Soluble in tetrahydrofuran 80% aqueous.

Application Notes

Candicidin is a macrocyclic heptaene antifungal complex produced by *Streptomyces griseus* and isolated by Lechevalier and colleagues in 1953. The candicidin complex comprises analogues A, B, C and D, with candicidin D as the major component. Candicidin is active against fungi, in particular *Candida albicans*, and is used clinically to treat vaginal candidiasis. Like all polyene antifungal metabolites, candicidin acts by binding to ergosterol and disrupting the fungal membrane.

References

1. Candicidin, a new antifungal antibiotic. Lechevalier H. et al., *Mycologia* 1953, 45, 155.
2. On *Streptomyces* producing a new antifungal substance mediocidin and antifungal substances of fungicidin-rimocidin-chromin group, eurocidin group and trichomycin-ascosin-candicidin group. Okami Y. et al., *J. Antibiot.* 1954, 7, 98.
3. Candicidin and other polyenic antifungal antibiotics. Waksman S.A. et al., *Bull. World Health Organ.* 1965, 33, 219.