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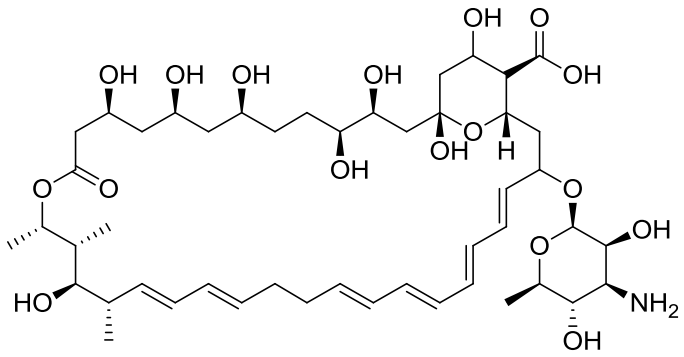
PRODUCT DATA SHEET

# Nystatin A1

Code No.: **BIA-N1416**

Pack sizes: **5 mg, 25 mg**



Synonyms : Polyfungin A1

## Specifications

| | | |
|---|---|---|
| CAS # | : | **1400-61-9** |
| Molecular Formula | : | **$C_{47}H_{75}NO_{17}$** |
| Molecular Weight | : | **926.1** |
| Source | : | ***Streptomyces* sp.** |
| Appearance | : | **Yellow solid** |
| Purity | : | **>98% by HPLC** |
| Long Term Storage | : | **-20°C** |
| Solubility | : | **Soluble in DMF or DMSO. Moderately soluble in methanol or ethanol. Poor water solubility.** |

## Application Notes

Nystatin is polyene antifungal containing a conjugated tetraene and a diene, isolated as a complex of three components A1, A2 and A3 from Streptomyces noursei and first reported in 1950. Nystatin, like most polyene antifungals, binds to sterols in the fungal cell membrane leading to formation of ion channels in the wall, ion imbalance and cell death. Nystatin is an established bioprobe and widely-used antifungal reagent with over 4,000 literature citations.

## References


1. Two antifungal agents produced by a soil actinomycete. Hazen E.L. & Brown R. Science 1950, 112, 423
2. Macrolide antibiotic studies. XVI. The structure of nystatin. Chong C.N. & Rickards R.W. Tet. Lett. 1970, 59, 5154.
3. The structure of nystatin A3, a component of nystatin complex. Zielinski J. et al. J. Antibiot. 1988, 41, 1289.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