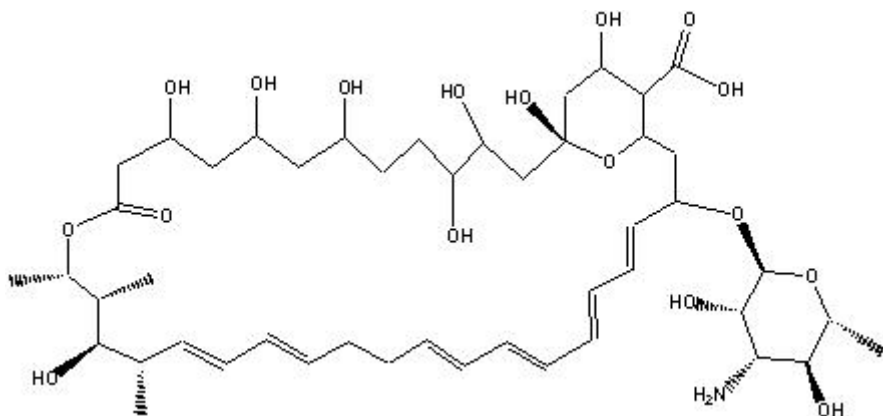


## TECHNICAL INFORMATION

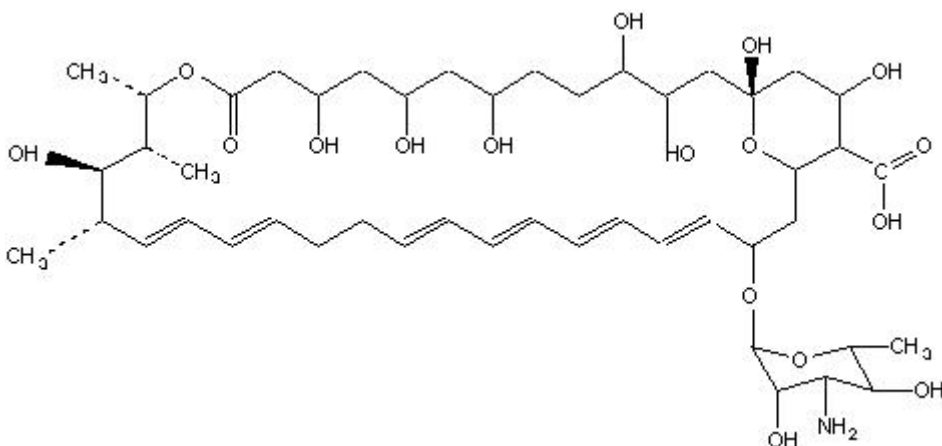
Catalog Number: 100417, 194534  
**Nystatin**

**Structure:**

Nystatin A



Nystatin A1



**Molecular Formula (for nystatin A):** C<sub>47</sub>H<sub>75</sub>NO<sub>17</sub>

**Molecular Weight (for nystatin A):** 926.11

**CAS #:** 1400-61-9

**Synonym:** Mycostatin

**Physical Description:** Hygroscopic, yellow to light tan powder.

**Recommended Storage:** +4°C. It is affected by long exposure to light, heat, and air.

**Solubility:** Very slightly soluble in water (effective as a suspension); slightly to sparingly soluble in alcohol, in methanol, in

n-propyl alcohol, and in n-butyl alcohol; insoluble in chloroform, in ether, and in benzene. Stock suspension in water (50 mg/ml) can be aliquoted and frozen at -20°C for up to approximately 3 to 4 months. Suspensions are stable at 37°C for up to 3 days.<sup>11</sup>

**Description:** Nystatin is an antifungal antibiotic obtained from *Streptomyces noursei*. It is known to be a mixture, but the composition has not been completely elucidated. Nystatin A is closely related to amphotericin B. Each is a macrocyclic lactone containing a ketal ring, an all-trans polyene system, and a mycosamine (3-amino-3-deoxyrhamnose) moiety.

Nystatin probably acts by binding to sterols in the cell membrane of the fungus with a resultant change in membrane permeability allowing leakage of intracellular components. It is absorbed very sparingly following oral administration. Most of the orally administered nystatin is passed unchanged in the stool.

**Recommended Concentration:** 50 mg/L for yeasts and fungi.

**Availability:**

Catalog Number	Description	Size
100417	Nystatin	500 KU 1 MU 5 MU 25 MU
194534	Nystatin, cell culture reagent	500 KU 1 MU 5 MU 25 MU

**References:**

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