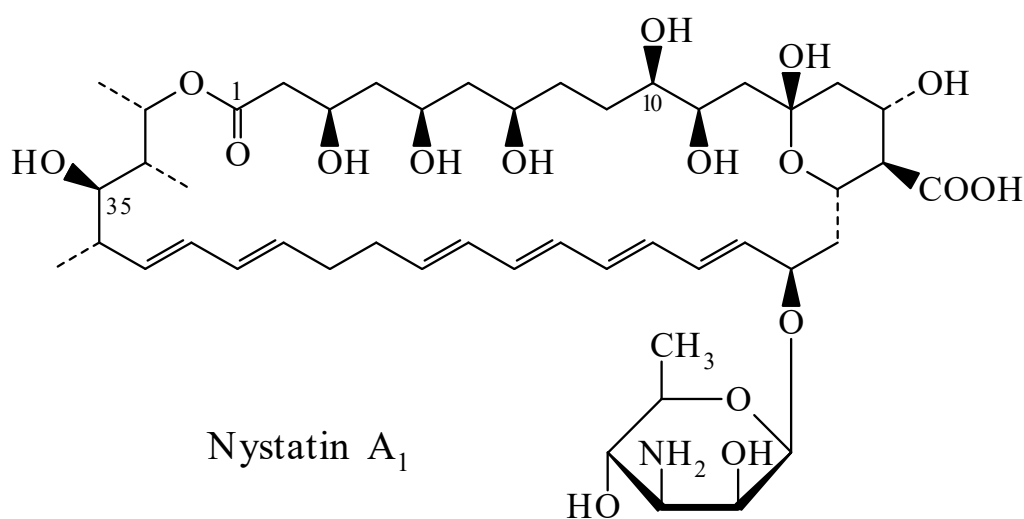




>>Entry Name: Nystatin, BAN, INN

Synonym(s): Fungicidin. Mycostatin. Chinyfungin



CAS Registry Number: 1400-61-9

Related CAS Registry Numbers(s): 65086-32-0

Biological Source: Prod. by *Streptomyces noursei* and other spp.

Use/Importance: Antifungal agent active against yeasts. No significant effect on bacteria or viruses

Physical Description: Light-yellow powder

Melting Point: Mp 250°

Optical Rotation: $[\alpha]_D^{25} -10$ (AcOH). $[\alpha]_D^{25} +21$ (Py). $[\alpha]_D^{25} +12$ (DMF)

Other Data: Gradually dec. >160°

Hazard & Toxicity: LD₅₀ (rat, orl) 10000 mg/kg. Exp. teratogen

Fluka: 74721

Sigma: N6261

>>Derivative: Me ester

CAS Registry Number: 52439-07-3

Melting Point: Mp 110-116 dec.°

Optical Rotation: $[\alpha]_D^{26} +45.3$ (DMF)

>>Variant: Nystatin A₁

Synonym(s): Polyfungin A₁

CAS Registry Number: 34786-70-4

Molecular Formula: C₄₇H₇₅NO₁₇

Molecular Weight: 926.106

Accurate Mass: 925.503504

Percentage Composition: C 60.96%; H 8.16%; N 1.51%; O 29.37%

UV: [neutral] $\lambda_{\max}$ 232 (ε 27600); 280 (ε 25500); 291 (ε 50700); 304 (ε 76100); 318 (ε 69700) (MeOH) (Derep)

Other Data: Major component of Nystatin complex

>>Derivative: 35-*O*-(2,6-Dideoxy-*L*-ribo-hexopyranoside)

Synonym(s): Nystatin A₃. Polyfungin A₃

CAS Registry Number: 62997-67-5

Molecular Formula: C₅₃H₈₅NO₂₀

Molecular Weight: 1056.249

Accurate Mass: 1055.566499

Percentage Composition: C 60.27%; H 8.11%; N 1.33%; O 30.29%

UV: [neutral] $\lambda_{\max}$ 290 (ε); 304 (ε 68600); 318 (ε) (MeOH) (Derep) [neutral] $\lambda_{\max}$ 240 (); 305 (); 318 () (MeOH) (Berdy)

>>Derivative: 10-Deoxy, 35-*O*-(2,6-dideoxy-*L*-ribo-hexopyranoside)

Synonym(s): Polyfungin B. Polifungin B

CAS Registry Number: 37371-05-4