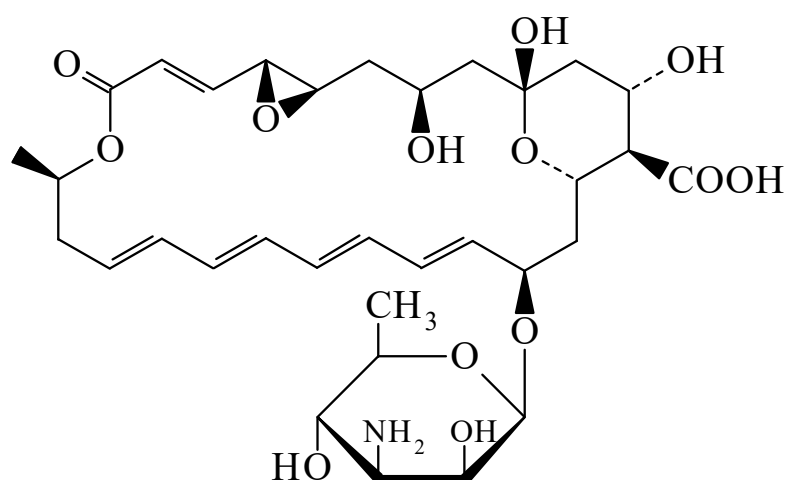




>>Entry Name: Pimaricin

ENTRY UNDER REVIEW

Synonym(s): Natamycin, BAN, INN, USAN. Mycophyt. Myprozine. Natacyn. Natafucin. Pimafucin. Pimafugin. Synogil. Tenneccetin. Tymasil. A 5283. CL 12625. Antibiotic A 5283. Delvolan. Delvucid. Delvopos



CAS Registry Number: 7681-93-8

Molecular Formula: C₃₃H₄₇NO₁₃

Molecular Weight: 665.733

Accurate Mass: 665.304744

Percentage Composition: C 59.54%; H 7.12%; N 2.10%; O 31.24%

Biological Source: Isol. from *Streptomyces natalensis* and other spp.

Use/Importance: Shows antifungal, antiviral and antimicrobial props. Permitted agent in USA for surface treatment of cheeses as mould-inhibitor

Physical Description: Cryst. (MeOH aq.)

Melting Point: Mp 200°

Calculated Log P Data: Log P -5.75 (uncertain value) (calc)

UV: [neutral] λ_{max} 279 (ε 35000); 289 (ε 55000); 303 (ε 78000); 318 (ε 76000) (MeOH) (Derep)

Other Data: Acid hydrol. → 3-Amino-3,6-dideoxymannose [BWF99-P](#)

Hazard & Toxicity: LD₅₀ (rat, orl) 2730 mg/kg

Aldrich: P4490-0

Fluka: 80480

Sigma: P9703

>>Derivative: Me ester

CAS Registry Number: 52555-04-1

Molecular Formula: C₃₄H₄₉NO₁₃

Molecular Weight: 679.76

Percentage Composition: C 60.08%; H 7.27%; N 2.06%; O 30.60%

Melting Point: Mp 270-280°

Optical Rotation: [α]_D²⁶ +94 (DMF)

>>Derivative: Amide

Synonym(s): Antibiotic AB 400. AB 400

Molecular Formula: C₃₃H₄₈N₂O₁₂

Molecular Weight: 664.748

Accurate Mass: 664.320728

Percentage Composition: C 59.63%; H 7.28%; N 4.21%; O 28.88%

Biological Source: Prod. by *Streptomyces costae*

Biological Use/Importance: Antifungal agent

Physical Description: Yellow powder

UV: [neutral] λ_{max} 290 (); 304 (); 318 () (no solvent reported)

Other Data: Stereochem. not confirmed

>>Derivative: N-Ac

Molecular Formula: C₃₅H₄₉NO₁₄

Molecular Weight: 707.77

Percentage Composition: C 59.40%; H 6.98%; N 1.98%; O 31.65%

Melting Point: Mp 200°

Optical Rotation: [α]