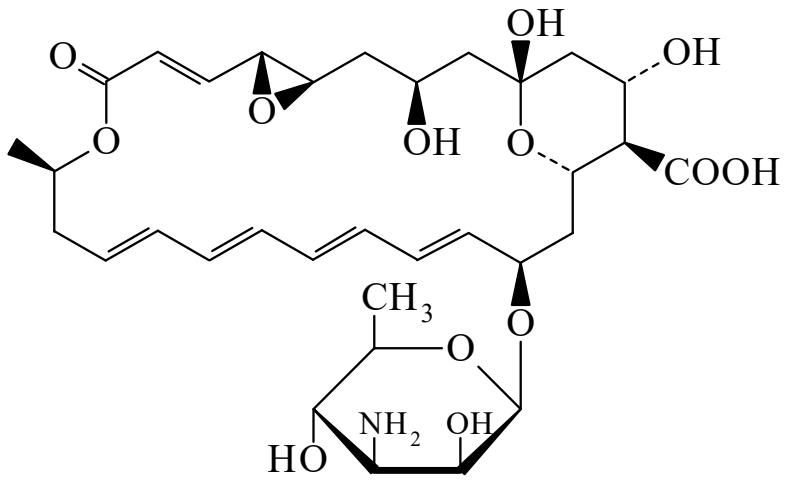
>>**Entry Name: Pimaricin**
ENTRY UNDER REVIEW
Synonym(s): Natamycin, BAN, INN, USAN**.** Mycophyt. Myprozine. Natacyn. Natafucin. Pimafucin. Pimafugin. Synogil. Tennecetin. Tymasil. A 5283. CL 12625. Antibiotic A 5283. Delvolan. Delvocid. Delvopos



CAS Registry Number: 7681-93-8

Molecular Formula: $C_{33}H_{47}NO_{13}$
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: LD_{50} (rat, orl) 2730 mg/kg

Aldrich: P4490-0
Fluka: 80480
Sigma: P9703

>>**Derivative:** Me ester

CAS Registry Number: 52555-04-1
Molecular Formula: $C_{34}H_{49}NO_{13}$
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: $[\alpha]_D^{26}$ +94 (DMF)

>>**Derivative:** Amide
Synonym(s): Antibiotic AB 400. AB 400

Molecular Formula: $C_{33}H_{48}N_2O_{12}$
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: $C_{35}H_{49}NO_{14}$
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]

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