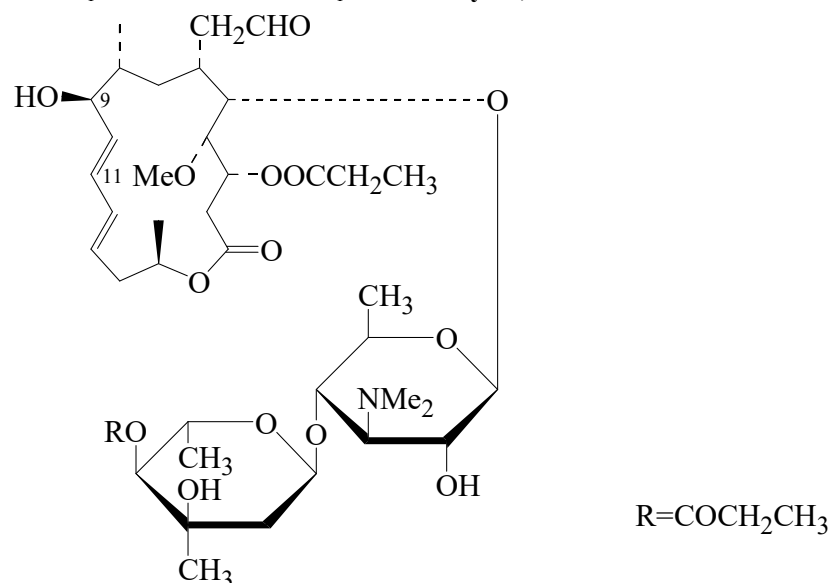




>>Entry Name: Platenomycin B₁

Synonym(s): Leucomycin V 3,4^B-dipropanoate, 9Cl. Espinomycin A₁. Midecamycin A₁. Mydecamycin. Turimycin P₃. Aboren. Macro-dil. Medemycin. Midecaccine. Midecin. Rubimycin. SF 837A₁. YL 704B₁. Antibiotic SF 837A₁. Antibiotic YL 704B₁. **Midecamycin**, INN, JAN



CAS Registry Number: 35457-80-8

Molecular Formula: C₄₁H₆₇NO₁₅

Molecular Weight: 813.978

Accurate Mass: 813.451074

Percentage Composition: C 60.50%; H 8.30%; N 1.72%; O 29.48%

Biological Source: Isol. from *Streptomyces platensis*, *Streptomyces fungicidicus*, *Streptomyces hygroscopicus* and *Streptomyces mycarofaciens*

Use/Importance: Highly active against gram-positive organisms

Physical Description: Powder or needles (C₆H₆/hexane)

Melting Point: Mp 131-132°. Mp 155-156°

Optical Rotation: [α]_D²¹ -42.1 (c, 1 in CHCl₃)

Calculated Log P Data: Log P 2.22 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (rat, orl) approx. 10000 mg/kg. LD₅₀ (mus, ivn) 1000 mg/kg. Exp. reprod. and teratogenic effects (large doses)

Sigma: M3143

>>Derivative: 9-Deoxy, Δ^9 -isomer, 11 β -hydroxy

Synonym(s): Neoisomidecamycin

CAS Registry Number: 85316-17-2

Molecular Formula: C₄₁H₆₇NO₁₅

Molecular Weight: 813.978

Accurate Mass: 813.451074

Percentage Composition: C 60.50%; H 8.30%; N 1.72%; O 29.48%

Source/Synthesis: Semisynthetic

Physical Description: Powder

Melting Point: Mp 114-116°

Optical Rotation: [α]_D²² -53 (c, 1 in EtOH)

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