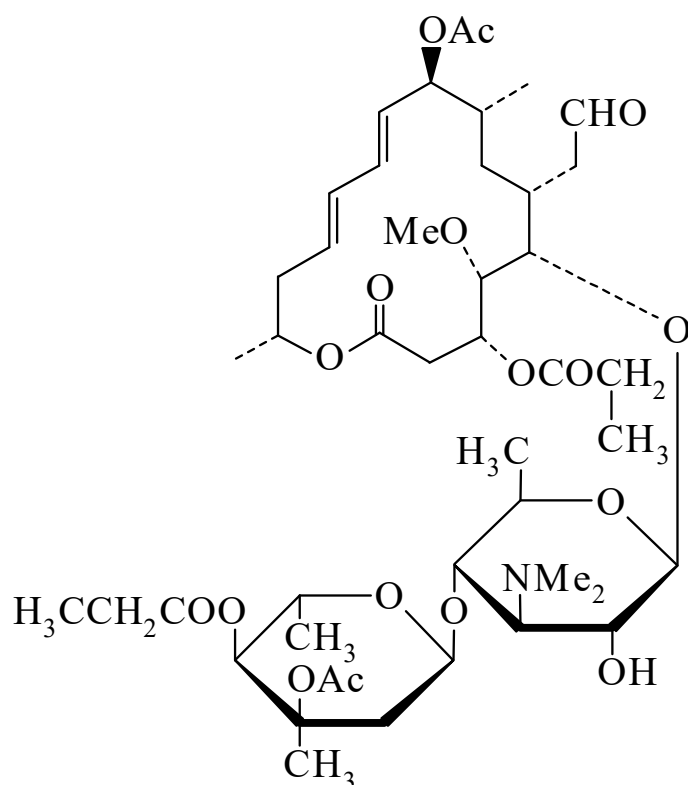




>>Entry Name: Miokamycin

Synonym(s): Leucomycin V 3^B,9-diacetate 3,4^B-dipropanoate, 9Cl. 3^B, 9-Diacetylmidecamycin. Acecamycin. Macroral. Miocamen. Miocamycin. Miokacin. Zamycin. A 3312. Antibiotic A 3312. Ponsinomycin



CAS Registry Number: 55881-07-7

Molecular Formula: C₄₅H₇₁NO₁₇

Molecular Weight: 898.052

Accurate Mass: 897.472204

Percentage Composition: C 60.19%; H 7.97%; N 1.56%; O 30.29%

Source/Synthesis: Semisynthetic

Use/Importance: Active against *Staphylococcus* including Erythromycin [BDQ81-E](#) and Leucomycin A₃ [BDT38-L](#) resistant strains. Also active against mycoplasmas

Physical Description: Cryst.

Development Status: Launched 1985

Melting Point: Mp 220°

Optical Rotation: $[\alpha]_D^{25} -53$ (c, 1.0 in CHCl₃). $[\alpha]_D^{20} -74$ (c, 1.0 in MeOH)

Calculated Log P Data: Log P 4.06 (uncertain value) (calc)

Other Data: Also available in noncryst. form with increased solubility and bioavailability

Hazard & Toxicity: LD₅₀ (mus, orl) >5000 mg/kg

References:

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Sato, T. *et al.*, *Chem. Pharm. Bull.*, 1981, **29**, 2675, (*struct, props*)
Ridgway, G.L. *et al.*, *J. Antimicrob. Chemother.*, 1983, **12**, 511, (*props*)
Yokota, M. *et al.*, *J. Antibiot.*, 1984, **37**, 1333; 1529, (*tox, props*)
Kobayashi, Y., *Drugs of Today (Barcelona)*, 1987, **23**, 505
Holliday, S.M. *et al.*, *Drugs*, 1993, **46**, 720, (*rev*)
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 183