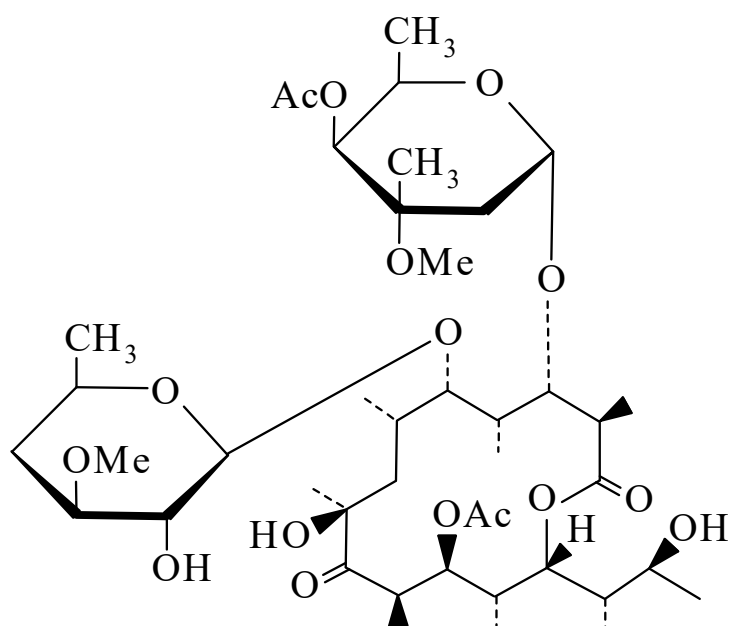




>>Entry Name: Lankamycin, 9CI

Synonym(s): Kujimycin B. Lankavamycin. A 20338N₂. Antibiotic A 20338N₂



CAS Registry Number: 30042-37-6

Molecular Formula: C₄₂H₇₂O₁₆

Molecular Weight: 833.021

Accurate Mass: 832.48204

Percentage Composition: C 60.56%; H 8.71%; O 30.73%

Biological Source: Isol. from *Streptomyces violaceoniger* and *Streptomyces spinichromogenes*

Use/Importance: Active against a number of gram-positive and -negative bacteria

Physical Description: Needles (Et₂O/petrol)

Melting Point: Mp 147-150 , 181-182° (double Mp) (178-180°)

Optical Rotation: $[\alpha]_D^{20} -94$ (c, 1.23 in EtOH). $[\alpha]_D -78$ (c, 1 in MeOH)

Other Data: $\lambda_{\max}$ 289 nm (log ϵ 1.50)

Hazard & Toxicity: LD₅₀ (mus, scu) 2500 mg/kg

>>Derivative: 15-Ac

Synonym(s): Kujimycin D

CAS Registry Number: 33956-59-1

Molecular Formula: C₄₄H₇₄O₁₇

Molecular Weight: 875.058

Accurate Mass: 874.492605

Percentage Composition: C 60.39%; H 8.52%; O 31.08%

Use/Importance: More active antibiotic than Lankamycin

>>Derivative: 15-Ketone

Synonym(s): 15-Deoxy-15-oxolankamycin

CAS Registry Number: 65423-08-7

Molecular Formula: C₄₂H₇₀O₁₆

Molecular Weight: 831.005

Accurate Mass: 830.46639

Percentage Composition: C 60.71%; H 8.49%; O 30.80%

Biological Source: From *Streptomyces violaceoniger*

Use/Importance: Shows weak antibacterial activity

Physical Description: Needles (EtOAc/hexane)

Melting Point: Mp 139-141°

Optical Rotation: $[\alpha]_D^{19} -85.5$ (c, 1 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, Et₂O; poorly sol. H₂O

>>Derivative: 15-O-(4-O-Acetyl-2,6-dideoxy-3-C-methyl- α -L-xylo-hexopyranoside)

Synonym(s): 15-O-(α -L-4-O-Acetylarcanosyl)lankamycin

CAS Registry Number: 65423-07-6