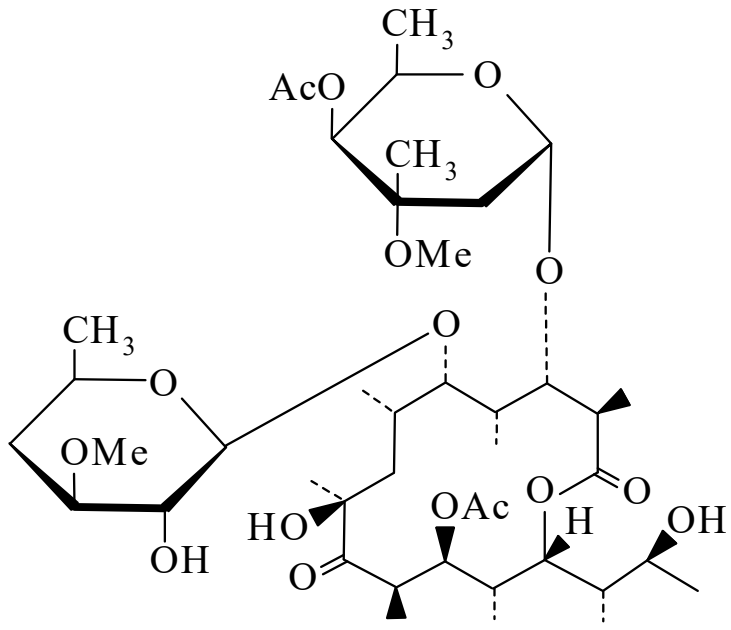
>>**Entry Name: Lankamycin,** 9CI
Synonym(s): Kujimycin B. Lankavamycin. A 20338N_2. Antibiotic A 20338N_2



CAS Registry Number: 30042-37-6
Molecular Formula: $C_{42}H_{72}O_{16}$
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 (Et_2O/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: λ_{max} 289 nm (log ε 1.50)
Hazard & Toxicity: LD_{50} (mus, scu) 2500 mg/kg

>>**Derivative:** 15-Ac
Synonym(s): Kujimycin D

CAS Registry Number: 33956-59-1

Molecular Formula: $C_{44}H_{74}O_{17}$
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: $C_{42}H_{70}O_{16}$
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, Et_2O; poorly sol. H_2O

>>**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