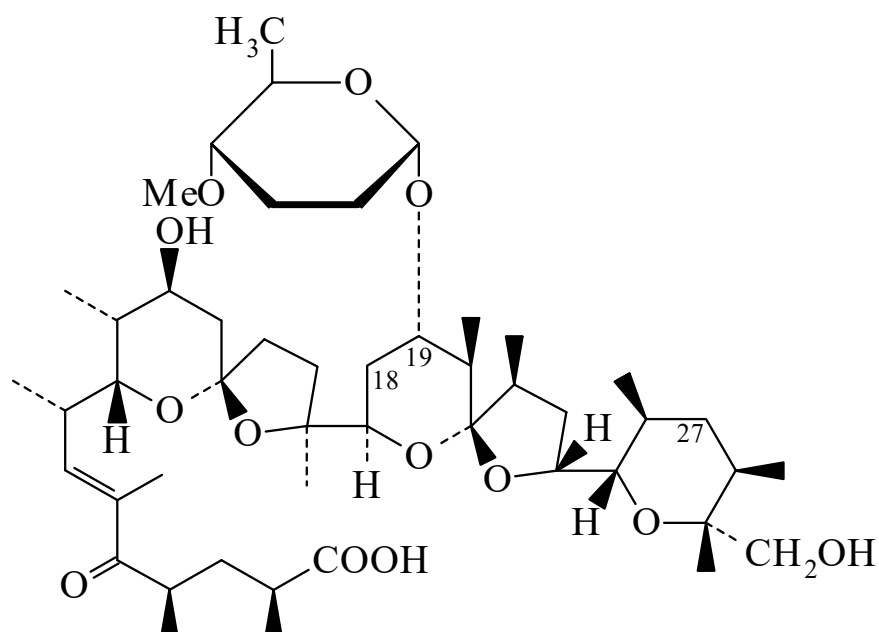




>>Entry Name: Dianemycin, 9Cl

Synonym(s): A 16183. Antibiotic A 16183



CAS Registry Number: 35865-33-9

Molecular Formula: $C_{47}H_{78}O_{14}$

Molecular Weight: 867.125

Accurate Mass: 866.53916

Percentage Composition: C 65.10%; H 9.07%; O 25.83%

General Statement: Polyether-type antibiotic

Biological Source: Obt. from *Streptomyces hygroscopicus*

Use/Importance: Active against gram-positive bacteria, fungi and yeasts, shows anti-HIV activity. Ionophore

Physical Description: Cryst.

Melting Point: Mp 72-74° (from Me_2CO aq.). Mp 156-157° (from EtOH aq.)

Optical Rotation: $[\alpha]_D^{25} +39.9$ (c, 2 in MeOH)

Solubility: BERDY SOL: Sol. EtOAc, Et_2O , DMSO, DMF, C_6H_6 , $CHCl_3$; fairly sol. MeOH, EtOH, Me_2CO , hexane, butanol; poorly sol. H_2O

pKa Value: pK_a 6.6

Calculated Log P Data: Log P 2.03 (uncertain value) (calc)

UV: [neutral] λ_{max} 232 (ϵ 14100) (EtOH) (Derep) [neutral] λ_{max} 232 (ϵ 15000) (MeOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, orl) 150 mg/kg ; BERDY HAZD : LD₅₀ (mus, scu) 40 mg/kg

>>Derivative: Na salt

CAS Registry Number: 65101-87-3

Physical Description: Cryst. (Me_2CO aq.)

Melting Point: Mp 210-212°

Optical Rotation: $[\alpha]_D^{25} +37.1$ (c, 1 in MeOH)

>>Derivative: 19-Epimer

Synonym(s): Antibiotic CP 60993. CP 60993

CAS Registry Number: 93218-58-7

Molecular Formula: $C_{47}H_{78}O_{14}$

Molecular Weight: 867.125

Accurate Mass: 866.53916

Percentage Composition: C 65.10%; H 9.07%; O 25.83%

Biological Source: From *Streptomyces hygroscopicus*

Optical Rotation: $[\alpha]_D +15.6$ (MeOH)

Solubility: BERDY SOL: Sol. MeOH, C_6H_6 ; poorly sol. H_2O

UV: [neutral] λ_{max} 232 (E1%/1cm 163) (EtOH) (Berdy)