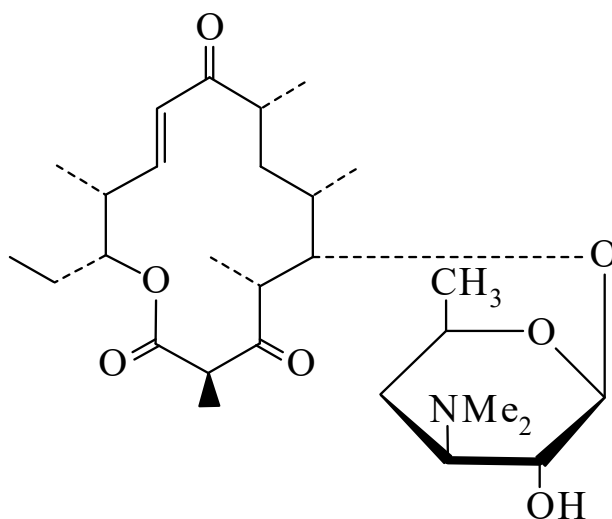




>>Entry Name: Narbomycin

Synonym(s): 12-Deoxypicromycin, 9Cl



CAS Registry Number: 6036-25-5

Molecular Formula: $C_{28}H_{47}NO_7$

Molecular Weight: 509.682

Accurate Mass: 509.335254

Percentage Composition: C 65.98%; H 9.29%; N 2.75%; O 21.97%

Biological Source: Prod. by *Streptomyces narbonensis*

Use/Importance: Inactive *in vivo* but highly active against gram-positive organisms *in vitro*

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 113.5-115°

Optical Rotation: $[\alpha]_D +68.5$ (c, 1.35 in CHCl₃)

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

pKa Value: pK_a 7.7

UV: [neutral] λ_{max} 225 (ϵ 11500); 286 (ϵ 120) (EtOH) (Berdy)

Other Data: λ_{max} 225 and 286 nm

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, scu) 600 mg/kg

>>Derivative: Aglycone

Synonym(s): Narbonolide

CAS Registry Number: 32885-75-9

Molecular Formula: $C_{20}H_{32}O_5$

Molecular Weight: 352.47

Accurate Mass: 352.224975

Percentage Composition: C 68.15%; H 9.15%; O 22.70%

Biological Source: Isol. from *Streptomyces venezuelae*

Melting Point: Mp 125-126°

Optical Rotation: $[\alpha]_D^{23} +89$ (c, 1 in MeOH)

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

UV: [neutral] λ_{max} 228 (ϵ 8200) (MeOH) (Berdy)

References:

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