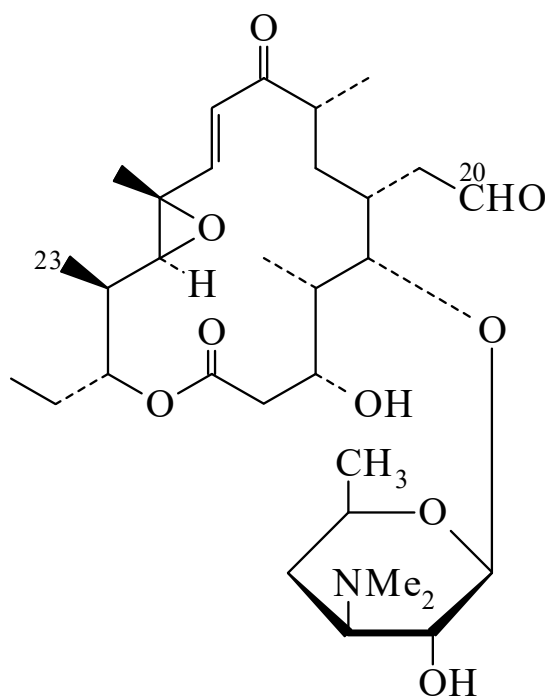




>>Entry Name: Rosamicin

Synonym(s): 4'-Deoxycirramycin A₁, 9Cl. **Rosaramicin**, BAN, INN, USAN. Izenamicin A₁. Juvenimicin A₃. 6108A₃. M 4365A₂. Sch 14947. Antibiotic 6108A₃. Antibiotic M 4365A₂. Antibiotic Sch 14947



CAS Registry Number: 35834-26-5

Molecular Formula: C₃₁H₅₁NO₉

Molecular Weight: 581.745

Accurate Mass: 581.356384

Percentage Composition: C 64.00%; H 8.84%; N 2.41%; O 24.75%

Biological Source: Isol. from *Micromonospora rosaria*, *Micromonospora capillata* and *Micromonospora fastidiosus*

Use/Importance: Antibacterial agent with broad spectrum of activity

Physical Description: Cryst. (CHCl₃)

Melting Point: Mp 119-122°

Optical Rotation: [α]_D²⁶ -35 (EtOH). [α]_D²⁴ -17.6 (c, 0.29 in CHCl₃)

Calculated Log P Data: Log P -0.49 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 240 (ϵ 14600) (MeOH) (Derep)

Other Data: $\lambda_{\max}$ 240 nm (ϵ 14 600) (MeOH)

Hazard & Toxicity: LD₅₀ (mus, orl) 1000 mg/kg

Fluka: 83904

Sigma: R2636

>>Derivative: NaH₂PO₄ salt

Synonym(s): Rosaramicin sodium phosphate, USAN

CAS Registry Number: 60802-40-6

>>Derivative: Octadecanoate salt

Synonym(s): Rosaramicin stearate, USAN

CAS Registry Number: 51547-64-9

>>Derivative: 20-(Acetylhydrazone)

Synonym(s): Antibiotic 6108A₁

CAS Registry Number: 130812-04-3

Molecular Formula: C₃₃H₅₅N₃O₉

Molecular Weight: 637.812

Accurate Mass: 637.393832

Percentage Composition: C 62.14%; H 8.69%; N 6.59%; O 22.58%

Biological Source: Prod. by *Micromonospora fastidiosus*

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

Physical Description: Powder

Melting Point: Mp 108-112 dec.°