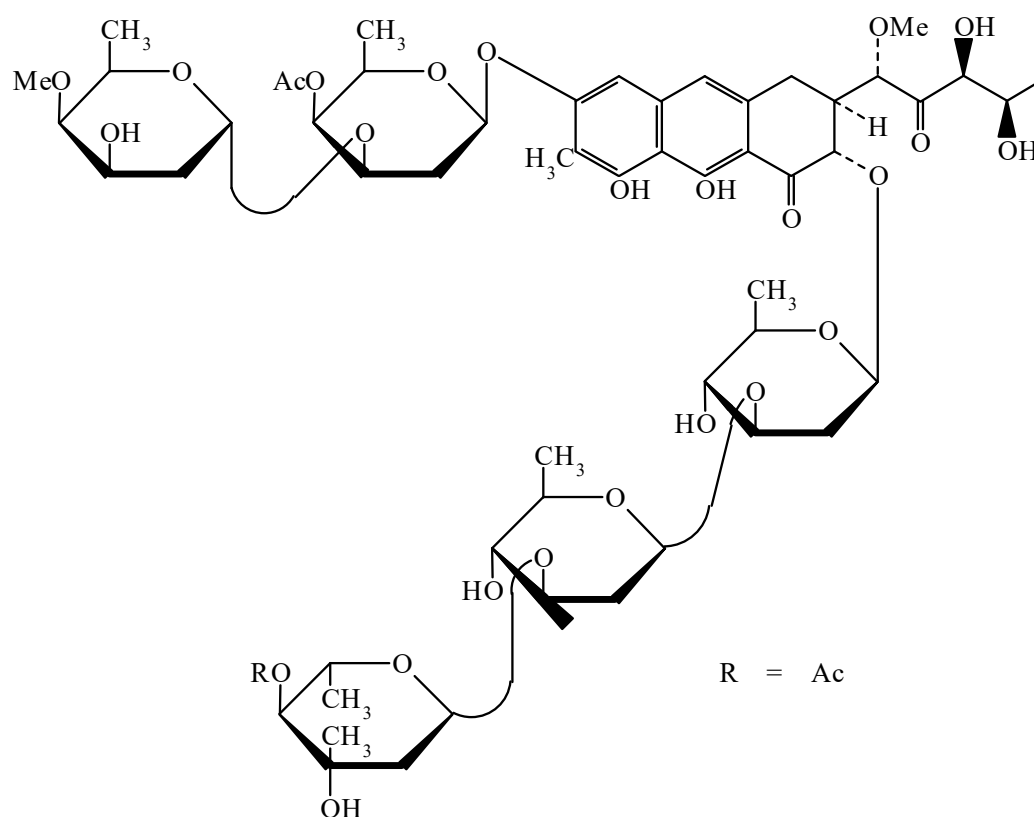




>>Entry Name: Chromomycin A₃

Synonym(s): Aburamycin B. Toyomycin. NSC 58514. Antibiotic B 599-III. SR 1768E. Antibiotic SR 1768E



CAS Registry Number: 7059-24-7

Molecular Formula: C₅₇H₈₂O₂₆

Molecular Weight: 1183.259

Accurate Mass: 1182.50944

Percentage Composition: C 57.86%; H 6.98%; O 35.16%

Biological Source: Produced by *Streptomyces griseus* and *Streptomyces aburaviensis*

Use/Importance: Parenteral antineoplastic and antimicrobial agent

Physical Description: Pale-yellow cryst.

Melting Point: Mp 185 dec.°

Optical Rotation: $[\alpha]_D^{23} -55$ (EtOH)

UV: [neutral] $\lambda_{\max}$ 228 (ϵ 26000); 280 (ϵ 51000); 318 (ϵ 10400); 332 (ϵ 8040); 415 (ϵ 11800) (MeOH) (Derep)

Other Data: Major component of chromomycin complex. Related to Olivomycins

Hazard & Toxicity: LD₅₀ (mus, orl) 1.43 mg/kg. Exp. reprod. and teratogenic effects

Fluka: 27100

Sigma: C2659

>>Derivative: 4^B-De-Me

Synonym(s): 4^B-Demethylchromomycin A₃. PA 39856-IV. Antibiotic PA 39856-IV

CAS Registry Number: 86917-64-8

Molecular Formula: C₅₆H₈₀O₂₆

Molecular Weight: 1169.232

Accurate Mass: 1168.49379

Percentage Composition: C 57.53%; H 6.90%; O 35.58%

Biological Source: From *Streptomyces aburaviensis*

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

Physical Description: Yellow cryst.

Melting Point: Mp 175.5-176.3°

Optical Rotation: $[\alpha]_D^{21} -50.6$ (c, 1 in EtOH)

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

UV: [neutral] $\lambda_{\max}$ 230 (E1%/1cm 204); 280 (E1%/1cm 430); 319 (E1%/1cm 69); 333 (E1%/1cm 56); 416 (E1%/1cm 94) (EtOH) (Berdy)