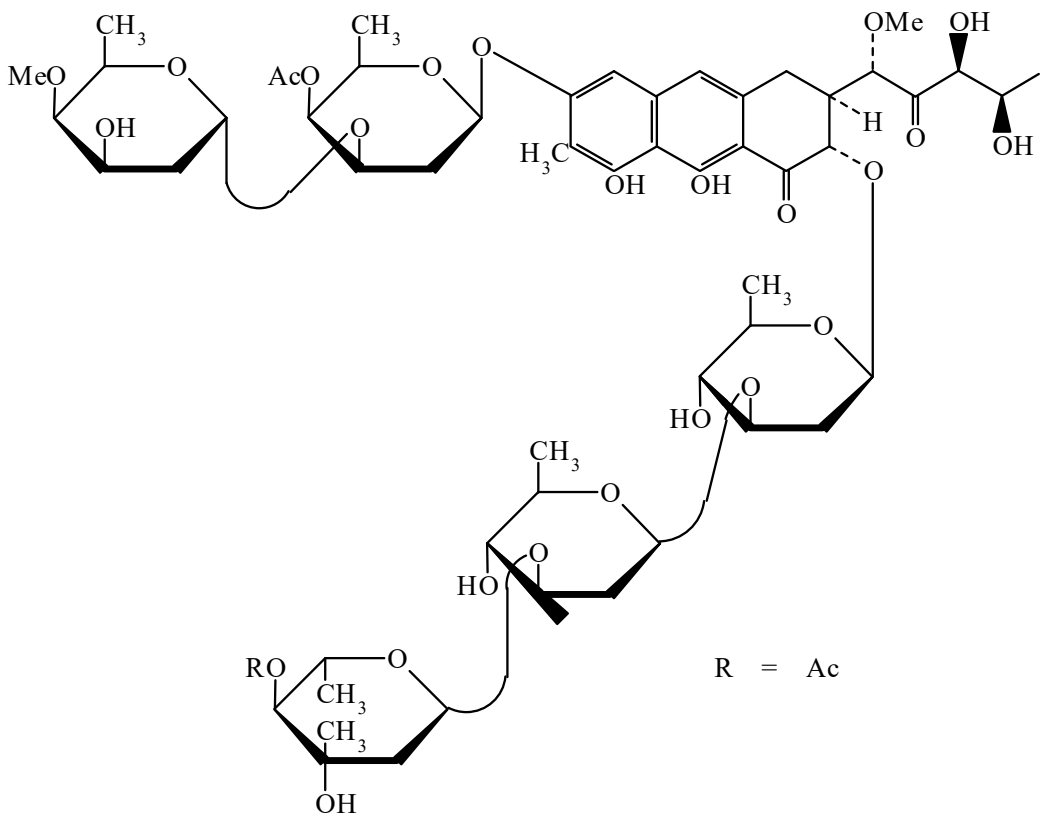
>>**Entry Name: Chromomycin A_3**

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



CAS Registry Number: 7059-24-7

Molecular Formula: $C_{57}H_{82}O_{26}$
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] λ_{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: LD_{50} (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 A_3. PA 39856-IV. Antibiotic PA 39856-IV

CAS Registry Number: 86917-64-8

Molecular Formula: $C_{56}H_{80}O_{26}$
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. H_2O, hexane
UV: [neutral] λ_{max} 230 (E1%/1cm 204); 280 (E1%/1cm 430); 319 (E1%/1cm 69); 333 (E1%/1cm 56); 416 (E1%/1cm 94) (EtOH) (Berdy)

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