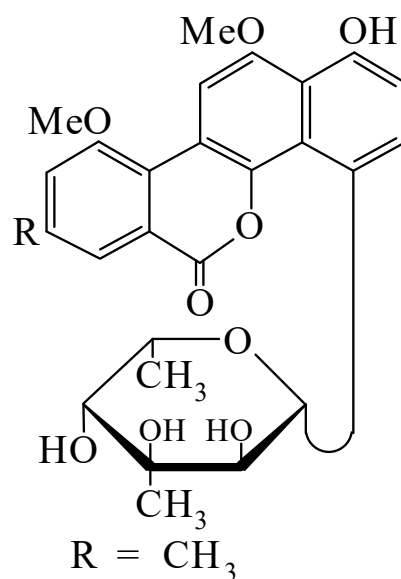




>>Entry Name: Chrysomycin B

Synonym(s): Chrysomycin M. Virenomycin M



CAS Registry Number: 83852-56-6

Related CAS Registry Numbers(s): 83138-96-9

Molecular Formula: C₂₇H₂₈O₉

Molecular Weight: 496.513

Accurate Mass: 496.173335

Percentage Composition: C 65.31%; H 5.68%; O 29.00%

General Statement: C-Glycoside antibiotic. Identity of Chrysomycin B with Virenomycin M is probable but does not seem firmly establ.

Biological Source: From *Streptomyces* sp. A419 and *Streptomyces virens*

Use/Importance: Active against gram-positive bacteria and bacterophage. Weakly active against gram-negative bacteria and some fungi

Physical Description: Yellow cryst.

Optical Rotation: $[\alpha]_D^{20} +9.7$ (c, 0.56 in AcOH)

Other Data: Minor component of Chrysomycin complex

>>Derivative: Tri-Ac

Melting Point: Mp 205-207°

>>Derivative: 1'-Epimer

Synonym(s): Albacarcin M

CAS Registry Number: 92934-54-8

Molecular Formula: C₂₇H₂₈O₉

Molecular Weight: 496.513

Accurate Mass: 496.173335

Percentage Composition: C 65.31%; H 5.68%; O 29.00%

Biological Source: Isol. from *Streptomyces albaduncas*

Use/Importance: Antitumour and antibacterial substance

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

UV: [neutral] $\lambda_{\max}$ 244 (ϵ 43343); 266 (ϵ 24973); 275 (ϵ 31825); 305 (ϵ 10724); 382 (ϵ 9731) (MeOH) (Berdy)

References:

- Gauze, G.F. *et al.*, *Antibiotiki (Moscow)*, 1977, **22**, 963, (isol)
Brazhikova, M.G. *et al.*, *Antibiotiki (Moscow)*, 1977, **22**, 967, (props)
Kudnikova, M.K. *et al.*, *Antibiotiki (Moscow)*, 1982, **27**, 507, (isol)
Weiss, U. *et al.*, *J. Antibiot.*, 1982, **35**, 1194, (isol)
U.S. Pat., 1984, 4 461 831; CA, **102**, 4456, (Albacarcin M)