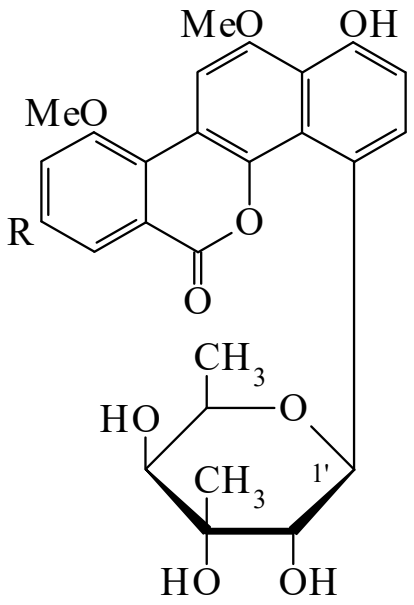
>>**Entry Name: Chrysomycin A**
Synonym(s): Chrysomycin V. Virenomycin V



R = CH═CH$_2$

CAS Registry Number: 82196-88-1
Related CAS Registry Numbers(s): 1403-38-9 83138-95-8

Molecular Formula: $C_{28}H_{28}O_9$
Molecular Weight: 508.524
Accurate Mass: 508.173335
Percentage Composition: C 66.13%; H 5.55%; O 28.32%
General Statement: *C*-Glycoside antibiotic. Identity of Chrysomycin A and Virenomycin V not conclusively establ. (sugar stereochem. not fully clear). Props. are similar
Biological Source: From *Streptomyces* sp. A-419 and *Streptomyces virens*
Use/Importance: Active against gram-positive bacteria and bacterophages. Weakly active against gram-negative bacteria and some fungi
Physical Description: Greenish-yellow needles or yellow cryst.
Melting Point: Mp 240 subl.°. Mp 255-260 dec.°
Optical Rotation: $[\alpha]_D^{22}$+16 (c, 1 in AcOH). $[\alpha]_D^{20}$+12.5 (c, 0.24 in AcOH)

>>**Derivative:** Tri-Ac

Melting Point: Mp 311-312°
Other Data: λ_{max} 217, 251, 265, 307, 325, 337, 392 nm ($CHCl_3$)

>>**Derivative:** 1'-Epimer
Synonym(s): Albacarcin V

CAS Registry Number: 92841-46-8

Molecular Formula: $C_{28}H_{28}O_9$
Molecular Weight: 508.524
Accurate Mass: 508.173335
Percentage Composition: C 66.13%; H 5.55%; O 28.32%
Biological Source: Isol. from *Streptomyces albaduncas*
Use/Importance: Antitumour and antibacterial substance
Solubility: BERDY SOL: Sol. MeOH, EtOAc; poorly sol. H_2O, hexane
UV: [neutral] λ_{max} 246 (ε 33259); 286 (ε 33970); 392 (ε 7272) (MeOH) (Berdy)

References:

Asheshov, I.N. *et al.*, *Antibiot. Chemother. (Washington, D.C.)*, 1954, **4**, 380
Strelitz, F. *et al.*, *J. Bacteriol.*, 1955, **69**, 280, *(isol)*
Gauze, G.F. *et al.*, *Antibiotiki (Moscow)*, 1977, **22**, 963, *(isol)*
Brazhnikova, M.G. *et al.*, *Antibiotiki (Moscow)*, 1977, **22**, 967, *(props)*
Kudinova, M.K. *et al.*, *Antibiotiki (Moscow)*, 1982, **27**, 507, *(isol)*
Weiss, U. *et al.*, *J. Antibiot.*, 1982, **35**, 1194, *(struct)*
U.S. Pat., 1984, 4 461 831; *CA*, **102**, 4456, *(Albacarcin V)*