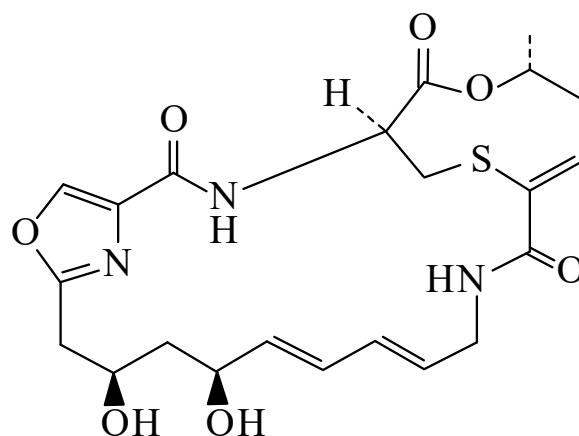




>>Entry Name: Griseoviridin



CAS Registry Number: 53216-90-3

Molecular Formula: $C_{22}H_{27}N_3O_7S$

Molecular Weight: 477.537

Accurate Mass: 477.156972

Percentage Composition: C 55.33%; H 5.70%; N 8.80%; O 23.45%; S 6.71%

Biological Source: Isol. from *Streptomyces griseus*

Use/Importance: Antibiotic active against gram-positive bacteria

Physical Description: Cryst. (MeOH) (polymorph.)

Melting Point: Mp 161-163 dec., 194-200°, 230-240°

Optical Rotation: $[\alpha]_D^{27} -237$ (c, 0.5 in MeOH)

Solubility: BERDY SOL: Sol. MeOH, EtOH, Py; fairly sol. H₂O, butanol; poorly sol. EtOAc, hexane

UV: [neutral] λ_{max} 221 (ϵ 41500); 278 (sh) (ϵ 1500) (MeOH) (Derep) [neutral] λ_{max} 221 (E1%/1cm 870) (MeOH) (Berdy) [neutral] λ_{max} 220 (ϵ 44000) (EtOH) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ivn) 75 mg/kg , LD₅₀ (mus, ipr) 100 mg/kg , LD₅₀ (mus, scu) 100 mg/kg

>>Derivative: Hydrochloride

Physical Description: Needles (Et₂O/MeOH)

Other Data: Dec. $\geq 170^\circ$

>>Derivative: Di-Ac

Physical Description: Cryst. (MeOH)

Melting Point: Mp 136-140 dec.°

Optical Rotation: $[\alpha]_D^{27} -230$ (c, 0.44 in MeOH)

References:

- Ames, D.E. *et al.*, *J.C.S.*, 1955, 4260, (*isol, ir, uv*)
Fallona, M.C. *et al.*, *Can. J. Chem.*, 1964, **42**, 371; 394, (*ir, uv, nmr*)
Birnbaum, G.I. *et al.*, *J.A.C.S.*, 1976, **98**, 1926, (*cryst struct*)
Bycroft, B.W. *et al.*, *J.C.S. Perkin I*, 1976, 1996; 1977, 2464, (*cmr, pmr, ms, ir, cryst struct, conformn*)
Meyers, A.I. *et al.*, *Pure Appl. Chem.*, 1982, **54**, 2537, (*synth*)
Nikaido, M.M., *Diss. Abstr. Int., B*, 1983, 146, (*synth*)
Jayaraman, G. *et al.*, *Biochim. Biophys. Acta*, 1994, **1201**, 149, (*pmr, struct*)
Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, GKC000