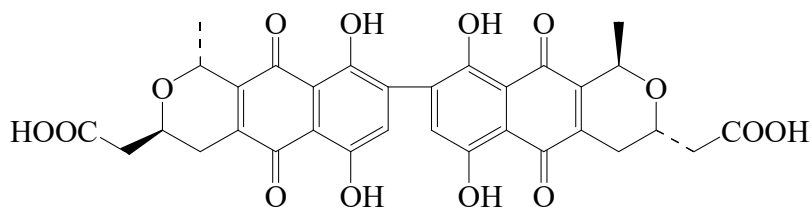




>>Entry Name: Actinorhodin

Synonym(s): Antibiotic 17



CAS Registry Number: 1397-77-9

Molecular Formula: C₃₂H₂₆O₁₄

Molecular Weight: 634.549

Accurate Mass: 634.13226

Percentage Composition: C 60.57%; H 4.13%; O 35.30%

Biological Source: Quinonoid pigment from Actinomycetes. Originally isol. from *Streptomyces coelicolor*

Biological Use/Importance: Shows limited antimicrobial activity

Physical Description: Red needles (dioxan)

Melting Point: Mp 270 dec.°

Solubility: BERDY SOL: Sol. bases, Py, dioxan, THF; fairly sol. Me₂CO, C₆H₆, MeOH; poorly sol. H₂O, EtOAc, hexane, acids

UV: [neutral] λ_{max} 285 (ε 17380); 523 (ε 15500); 565 (ε 15130) (dioxan) (Berdy) [base] λ_{max} 588 (); 641 () (NAOH) (Berdy) [neutral] λ_{max} 518 (); 522 () (DMF) (Berdy)

References:

Brockmann, H. *et al.*, *Annalen*, 1966, **698**, 209-229, (*isol, struct*)

Zeeck, A. *et al.*, *Annalen*, 1969, **724**, 172-182, (*abs config*)

Gorst-Allman, C.P. *et al.*, *J.O.C.*, 1981, **46**, 455-456, (*biosynth*)

Brimble, M.A. *et al.*, *Tet. Lett.*, 1995, **36**, 9209-9210, (*synth*)