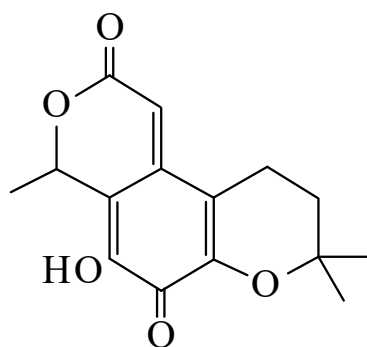




>>Entry Name: Fusicin

Synonym(s): 9,10-Dihydro-5-hydroxy-4,8,8-trimethyl-2*H*,4*H*-benzo[1,2-*b*:4,3-*c'*]dipyran-2,6(8*H*)-dione, 9Cl



CAS Registry Number: 83-85-2

Molecular Formula: C₁₅H₁₆O₅

Molecular Weight: 276.288

Accurate Mass: 276.099775

Percentage Composition: C 65.21%; H 5.84%; O 28.95%

Biological Source: Isol. from cultures of *Oidiodendron fuscum*, other *Oidiodendron* spp. and *Potebniamyces gallicola*

Use/Importance: Antibacterial agent and ADP transport inhibitor

Physical Description: Orange plates (EtOH)

Melting Point: Mp 230°

Solubility: BERDY SOL: Sol. MeOH, CHCl₃, bases; fairly sol. Et₂O, C₆H₆; poorly sol. H₂O, hexane

Calculated Log P Data: Log P 0.43 (calc)

UV: [neutral] λ_{max} 352 (ε 82000) (MeOH) (Berdy)

Other Data: Subl. at 160-80° in high vac.

>>Derivative: Na salt

Physical Description: Purple cubes

>>Derivative: Hydrochloride

Melting Point: Mp 210 dec.°

>>Derivative: Thiuronium chloride

Physical Description: Needles

Melting Point: Mp 205-208°

References:

- Michael, S.E., *Biochem. J.*, 1948, **43**, 528, (*isol*)
Birkinshaw, J.H. *et al.*, *Biochem. J.*, 1951, **48**, 67, (*struct*)
Barton, D.H.R. *et al.*, *J.C.S.*, 1956, 1028, (*struct, synth*)
Birch, A.J. *et al.*, *J.C.S.*, 1965, 1231, (*biosynth*)
Pyuskyulev, B. *et al.*, *Tetrahedron*, 1973, **29**, 2849, (*synth*)
Crawley, G.C. *et al.*, *J.C.S. Perkin I*, 1981, 221, (*isol*)
Boulet, C.A. *et al.*, *Can. J. Chem.*, 1983, **61**, 2285, (*isol*)