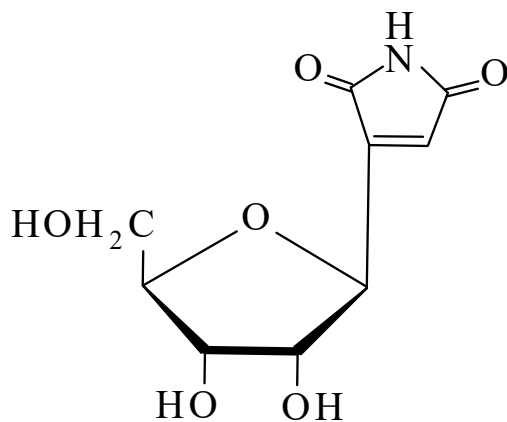




>>Entry Name: Showdomycin

Synonym(s): 3-(β-D-Ribofuranosyl)-1*H*-pyrrole-2,5-dione, 9Cl. 2-(β-D-Ribofuranosyl)maleimide, 8Cl. NSC 93047



CAS Registry Number: 16755-07-0

Molecular Formula: C₉H₁₁NO₆

Molecular Weight: 229.189

Accurate Mass: 229.058639

Percentage Composition: C 47.17%; H 4.84%; N 6.11%; O 41.89%

Biological Source: Isol. from *Streptomyces showdoensis*

Use/Importance: Exhibits antitumour activity

Physical Description: Leaflets (Me₂CO/C₆H₆)

Melting Point: Mp 160-161°

Optical Rotation: [α]_D²² +49.9 (c, 1 in H₂O)

Solubility: Sol. H₂O, EtOH, insol. Et₂O; BERDY SOL: Sol. H₂O, EtOH, Me₂CO, dioxan, DMF, butanol, MeOH; fairly sol. EtOAc, CHCl₃; poorly sol. C₆H₆, hexane

pKa Value: pK_a 9.29 (H₂O)

UV: [neutral] λ_{max} 222 (ε 12600); 272 (sh) (ε 6000) (95% EtOH) (Derep) [neutral] λ_{max} 221 (E1%/1cm 442) (H₂O) (Berdy) [neutral] λ_{max} 222 (ε 12600) (EtOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, ipr) 25 mg/kg; LD₅₀ (mus, ivn) 110 mg/kg ; BERDY HAZD : LD₅₀ (mus, ivn) 110 mg/kg , LD₅₀ (mus, ipr) 25 mg/kg , LD₅₀ (mus, scu) 18 mg/kg

Sigma: S8003

>>Derivative: Tri-Ac

Melting Point: Mp 115-116°

>>Derivative: 2',3'-Isopropylidene

Melting Point: Mp 140.5-141°

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