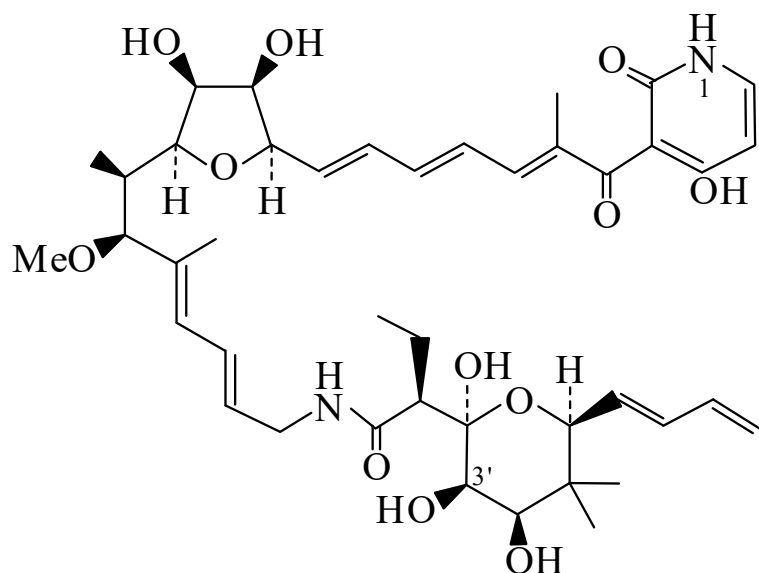




>>Entry Name: Mocimycin, 9Cl, INN

ENTRY UNDER REVIEW

Synonym(s): Kirromycin. Delvomycin. MYC 8003. Antibiotic MYC 8003



CAS Registry Number: 50935-71-2

Molecular Formula: C₄₃H₆₀N₂O₁₂

Molecular Weight: 796.953

Accurate Mass: 796.414628

Percentage Composition: C 64.81%; H 7.59%; N 3.52%; O 24.09%

Biological Source: Prod. by an *Actinoplanes* sp., *Streptomyces collinus* and *Streptomyces ramocissimus*

Use/Importance: Shows antibiotic props. esp. against clostridia. Animal growth promoter used in poultry breeding

Physical Description: Yellow powder

Optical Rotation: $[\alpha]_D^{22}$ -60 (c, 1 in MeOH)

Calculated Log P Data: Log P 1.03 (uncertain value) (calc)

UV: [neutral] $\lambda_{\max}$ 233 (ϵ 15000); 276 (ϵ 6000); 286 (ϵ); 327 (ϵ 5000) (EtOH) (Derep)

Hazard & Toxicity: LD₅₀ (mus, ipr) 500 mg/kg

Sigma: K1507

>>Derivative: 1-Me

Synonym(s): 1-Methylmocimycin, 9Cl. **Goldinodox**. Goldinomycin. Aurodox. X 5108. Antibiotic X 5108

CAS Registry Number: 12704-90-4

Molecular Formula: C₄₄H₆₂N₂O₁₂

Molecular Weight: 810.98

Accurate Mass: 810.430278

Percentage Composition: C 65.17%; H 7.71%; N 3.45%; O 23.67%

Biological Source: Isol. from *Streptomyces goldiniensis*

Use/Importance: Shows antibiotic props. Poultry growth promoter

Physical Description: Yellow amorph. solid

Optical Rotation: $[\alpha]_D$ -82.8 (c, 0.52 in EtOH)

Solubility: BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O

pKa Value: pK_a 6.1

UV: [neutral] $\lambda_{\max}$ 219 (E1%/1cm 680); 232 (E1%/1cm 660); 327 (E1%/1cm 415) (pH 7 buffer) (Berdy) [acid] $\lambda_{\max}$ 207 (E1%/1cm 500); 234 (E1%/1cm 610); 336 (E1%/1cm 388) (HCl) (Berdy) [base] $\lambda_{\max}$ 219 (E1%/1cm 680); 230 (E1%/1cm 650); 327 (E1%/1cm 410) (NaOH) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, orl) >4000 mg/kg; LD₅₀ (mus, scu) 1320 mg/kg ; BERDY HAZD : LD₅₀ (mus, scu) 1320 mg/kg

>>Derivative: 5,6-Dihydro

Synonym(s): 5,6-Dihydromocimycin C

CAS Registry Number: 61994-74-9