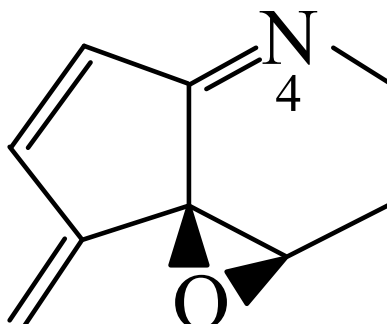




>>Abikoviromycin



7-Ethylidene-1*a*,2,3,7-tetrahydrocyclopent[*b*]oxireno[*c*]pyridine, 9*Cl*, 8*Cl*. Latumcidin. Virocidin. SF 973A.

Antibiotic SF 973A. Thomsomycin

CJS54-J

[31774-33-1]

Classification:VX7540 XA2400

C₁₀H₁₁NO M 161.203. 161.084064. C 74.51%; H 6.88%; N 8.69%; O 9.93%

Isol. from *Streptomyces abikoensis*, *Streptomyces rubescens* and *Streptomyces latumcidicus*. Weak antibacterial and antifungal antibiotic. Antiviral agent. Highly unstable, polymerising on isol. from broth cultures. Can be handled in dilute soln.. $[\alpha]_D^{21} +148.9$ (c, 1 in 0.1*N* NaOH). [acid] $\lambda_{\max}$ 238 (ϵ 9980); 338 (ϵ 11600) (0.1*N* HCl) (Derep) [base] $\lambda_{\max}$ 245 (ϵ 8690); 290 (ϵ 7730) (0.1*N* NaOH) (Derep) [neutral] $\lambda_{\max}$ 243 (ϵ 9000); 289 (sh) (ϵ 8710); 345 (sh) (ϵ 4000) (EtOH or pH 7) (Derep) [neutral] $\lambda_{\max}$ 244 (ϵ 13900) (MeOH) (Derep)

>>Sulfate: CJS55-K [43043-59-0] Cryst.. Mp 140-141 dec. $^{\circ}$. $[\alpha]_D^{25} +24$ (c, 1 in H₂O).

◆GY8431000

>>Picrate: CJS57-M Yellow needles (EtOAc/MeOH). Mp 136-137 $^{\circ}$

>>4,4*a*-Dihydro: **Dihydrolatumcidin**. SF 973B. Antibiotic SF 973B. CJS58-N [20421-29-8]

Classification:VX7540. C₁₀H₁₃NO M 163.219. 163.099714. C 73.59%; H 8.03%; N 8.58%; O 9.80%. Isol. from *Streptomyces olivaceus*. Mp 60-61 $^{\circ}$ (57-59 $^{\circ}$). $[\alpha]_D^{22} +276$ (c, 1 in MeOH). pK_a 8.07. [neutral] $\lambda_{\max}$ 244 (E1%/1cm 850) (MeOH) (Berdy)

>>Dihydro; hydrochloride: LJB75-E Mp 130-132 $^{\circ}$

>>4,4*a*-Dihydro, 4-hydroxy: **Dihydro-*N*-hydroxyabikoviromycin**. *N*-Hydroxydihydroabikoviromycin. CJS59-O [109292-19-5] Classification:VX7540. C₁₀H₁₃NO₂ M 179.218. 179.094629. C 67.02%; H 7.31%; N 7.82%; O 17.85%. From *Streptomyces* sp. SANK 65986. Exhibits antimicrobial activity. BERDY SOL: Sol. MeOH, CHCl₃; poorly sol. H₂O, hexane. [neutral] $\lambda_{\max}$ 210 (); 242 () (MeOH) (Berdy) [acid] $\lambda_{\max}$ 243 () (MeOH-HCl) (Berdy) [base] $\lambda_{\max}$ 210 (); 242 () (MeOH-NAOH) (Berdy).

◆BERDY HAZD : LD₅₀ (mus, ivn) 100 - 200 mg/kg