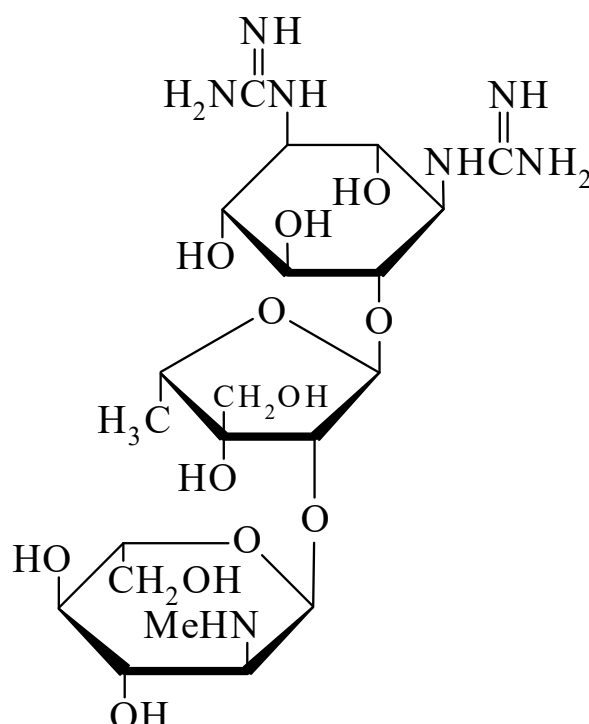




>>Entry Name: Dihydrostreptomycin, BAN, INN

Synonym(s): Abiocine. Citrocil. Dihydrostrep. Hydrosin. Mycin. Vibriomycin. DST. M43-05026. Many other names



CAS Registry Number: 128-46-1

Molecular Formula: $C_{21}H_{41}N_7O_{12}$

Molecular Weight: 583.595

Accurate Mass: 583.281323

Percentage Composition: C 43.22%; H 7.08%; N 16.80%; O 32.90%

General Statement: Aminoglycoside antibiotic

Biological Source: Isol. from *Streptomyces humidus* and obt. by redn. of streptomycin

Use/Importance: Broad-spectrum antibacterial agent, restricted to veterinary use due to likely ototoxicity

Solubility: BERDY SOL: Sol. H_2O ; poorly sol. butanol, hexane

Calculated Log P Data: Log P -7.25 (uncertain value) (calc)

UV: [neutral] λ_{max} (H_2O) (Berdy)

Hazard & Toxicity: Human and exp. teratogenic effects. LD_{50} (rat, ivn) 200 mg/kg ; BERDY HAZD : LD_{50} (mus, ivn) 200 mg/kg

>>Derivative: Hydrochloride (1:3)

CAS Registry Number: 6533-54-6

Physical Description: Cryst. (MeOH)

Melting Point: Mp 190-195 dec.°

Optical Rotation: $[\alpha]_D^{25}$ -95

>>Derivative: Sulfate (1:1.5)

Synonym(s): Dihydrostreptomycin sulfate, USAN. Sol-Mycin. Streptomagma. Didromycine

CAS Registry Number: 5490-27-7

Physical Description: Cryst. (MeOH aq.)

Optical Rotation: $[\alpha]_D^{17}$ -85 (c, 0.1 in H_2O)

Other Data: Dec. at 255-265°. Component of Diathal and Azimycin

Fluka: 37386

Sigma: D7253

References: