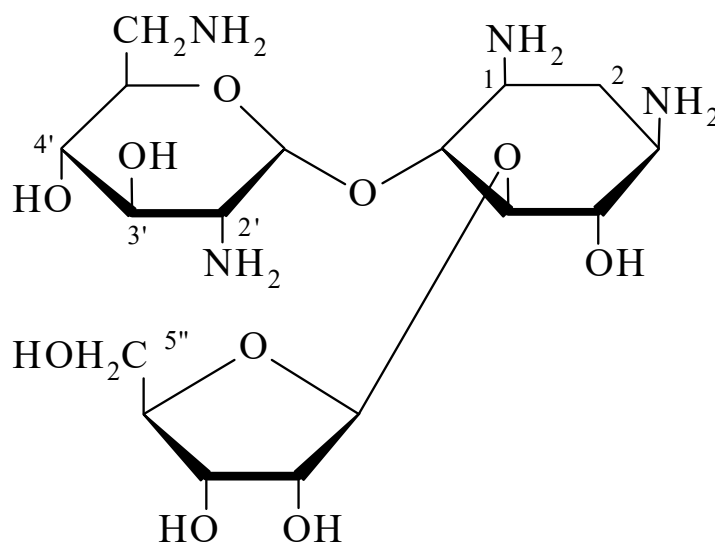




>>Entry Name: **Ribostamycin**, BAN, INN

Synonym(s): 2,6-Diamino-2,6-dideoxy- α -D-glucopyranosyl-(1 $\rightarrow$ 4)-[β -D-ribofuranosyl-(1 $\rightarrow$ 5)]-2-deoxy-D-streptamine, 8Cl. Hetangmycin. SF 733. Antibiotic SF 733. Dekamycin IV



CAS Registry Number: 25546-65-0

Molecular Formula: C₁₇H₃₄N₄O₁₀

Molecular Weight: 454.476

Accurate Mass: 454.227496

Percentage Composition: C 44.93%; H 7.54%; N 12.33%; O 35.20%

Biological Source: Isol. from *Streptomyces ribosidificus* and *Pseudomonas* BN-246

Biological Use/Importance: Active against gram-positive and -negative bacteria

Physical Description: Cryst. (MeOH)

Melting Point: Mp 192-195 dec.°

Optical Rotation: $[\alpha]_D^{23} +42$ (c, 1 in H₂O)

Calculated Log P Data: Log P -6.97 (uncertain value) (calc)

Other Data: Isomeric with Xylostacin [HJB63-H](#)

Hazard & Toxicity: LD₅₀ (rat, ipr) 4400 mg/kg. Exp. reprod. and teratogenic effects (large doses)

>>Derivative: Sulfate (2:1)

Synonym(s): **Ribostamycin sulfate**, JAN. Vistamycin

CAS Registry Number: 53797-35-6

Physical Description: Powder

Optical Rotation: $[\alpha]_D^{20} +39$ (c, 1 in H₂O)

Hazard & Toxicity: LD₅₀ (rat, scu) 5600 mg/kg. LD₅₀ (rat, ipr) 3080 mg/kg

Sigma: R2255

>>Derivative: N³-Ac

Synonym(s): **Antibiotic SF 733D**. SF 733D. N³-Acetylribostamycin

CAS Registry Number: 52212-97-2

Molecular Formula: C₁₉H₃₆N₄O₁₁

Molecular Weight: 496.514

Accurate Mass: 496.238061

Percentage Composition: C 45.96%; H 7.31%; N 11.28%; O 35.45%

Biological Source: Prod. by *Streptomyces ribosidificus* SF-733

Physical Description: Powder

Melting Point: Mp 160°

Optical Rotation: $[\alpha]_D^{24} +18$ (c, 1 in H₂O)