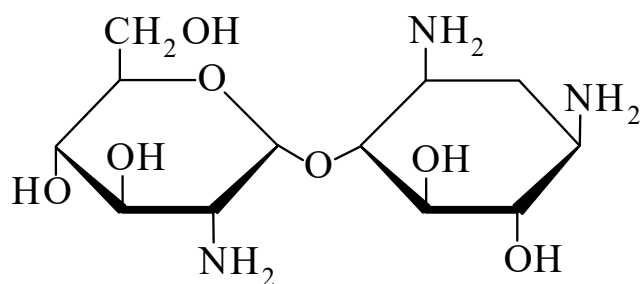




>>Entry Name: Paromamine, 9Cl

Synonym(s): 4-*O*-(2-Amino-2-deoxy- α -D-glucopyranosyl)-2-deoxy-D-streptamine, 9Cl. Neomycin D. Pseudoneamine. ψ -Neamine



CAS Registry Number: 534-47-4

Related CAS Registry Numbers(s): 1405-10-3

Molecular Formula: C₁₂H₂₅N₃O₇

Molecular Weight: 323.345

Accurate Mass: 323.169252

Percentage Composition: C 44.58%; H 7.79%; N 13.00%; O 34.64%

Biological Source: Prod. by *Streptomyces kanamyceticus* and *Streptomyces fradiae* and by hydrol. of Paromomycin

Use/Importance: Weakly active against gram-positive bacteria

Optical Rotation: $[\alpha]_D^{26} +114$ (c, 1.4 in H₂O)

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

UV: [neutral] $\lambda_{\max}$ (H₂O) (Berdy)

>>Derivative: *N,N',N''*-Tri-Ac

Optical Rotation: $[\alpha]_D^{25} +108$ (c, 1.0 in H₂O)

>>Derivative: *O*⁵- β -D-Xylofuranosyl

Synonym(s): Antibiotic Z 1159-2, Z 1159-2, 5- β -D-Xylofuranosylparomamine

CAS Registry Number: 55484-62-3

Molecular Formula: C₁₇H₃₃N₃O₁₁

Molecular Weight: 455.461

Accurate Mass: 455.211512

Percentage Composition: C 44.83%; H 7.30%; N 9.23%; O 38.64%

Biological Source: Isol. from *Bacillus circulans* and *Bacillus vitellinus*

Optical Rotation: $[\alpha]_D +37.8$ (H₂O)

References:

Umezawa, S. *et al.*, *J. Antibiot.*, 1966, **19**, 88; 1972, **25**, 530, (*synth*)

Japan. Pat., 1974, 74 117 685; *CA*, **83**, 7129, (*isol, uv, ir, pmr, deriv*)

Nagabhushan, T.L. *et al.*, *Tet. Lett.*, 1975, 747, (*cmr*)