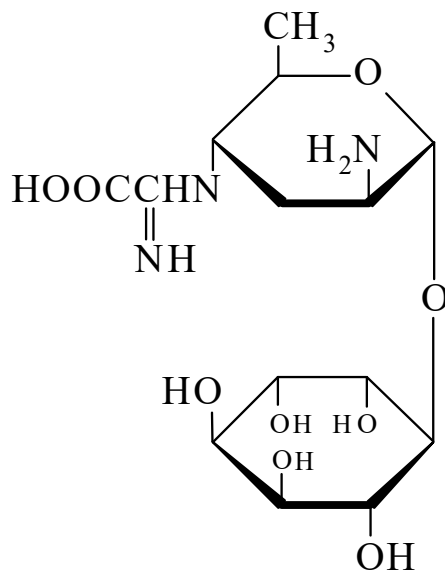




>>Entry Name: Kasugamycin, 8Cl

Synonym(s): 3-O-[2-Amino-4-[(carboxyiminomethyl)amino]-2,3,4,6-tetra-deoxy- α -D-arabino-hexopyranosyl]-D-chiro-inositol, 9Cl. Kasumin L



CAS Registry Number: 6980-18-3

Molecular Formula: $C_{14}H_{25}N_3O_9$

Molecular Weight: 379.366

Accurate Mass: 379.159082

Percentage Composition: C 44.32%; H 6.64%; N 11.08%; O 37.96%

Biological Source: Prod. by *Streptomyces kasugaensis*

Use/Importance: Inhibitor of the fungus responsible for rice blast

pKa Value: pK_{a1} 2; pK_{a2} 7.1; pK_{a3} 10.6 (amidine) pK_a 10.6

>>Derivative: Hydrochloride

Synonym(s): Kasumin. NSC 100858

CAS Registry Number: 19408-46-9

Extra CAS Registry Numbers(s): 39080-40-5

Physical Description: Plates

Melting Point: Mp 206-210 dec.°

Optical Rotation: $[\alpha]_D +125$ (c, 1.6 in H_2O)

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

UV: [neutral] λ_{max} (H_2O) (Berdy)

Hazard & Toxicity: LD₅₀ (mus, orl) 20.5 mg/kg ; BERDY HAZD : LD₅₀ (mus, ivn) 800 mg/kg , LD₅₀ (mus, scu) 2000 mg/kg , LD₅₀ (mus, ipr) 2000 mg/kg

Sigma: K1253

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