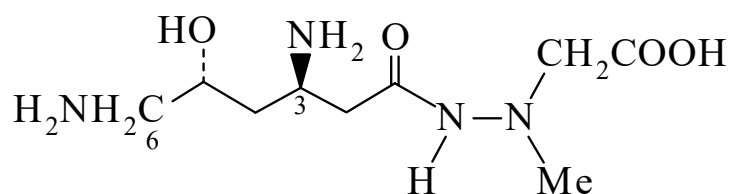




>>Entry Name: Negamycin

Synonym(s): 3,6-Diamino-2,3,4,6-tetradeoxyhexonic acid 2-(carboxymethyl)-2-methylhydrazide, 10Cl. 3,6-Diamino-5-hydroxyhexanoic acid 2-(carboxymethyl)-2-methylhydrazide, 9Cl



CAS Registry Number: 33404-78-3

Related CAS Registry Numbers(s): 65919-19-9

Molecular Formula: C₉H₂₀N₄O₄

Molecular Weight: 248.281

Accurate Mass: 248.148456

Percentage Composition: C 43.54%; H 8.12%; N 22.57%; O 25.78%

UV: [neutral] λ_{max} 0 (end) (ε) (H₂O) (Derep)

Hazard & Toxicity: LD₅₀ (mus, ivn) 400 mg/kg

>>Variant: (3*R*,5*R*)-form

Synonym(s): L-*threo*-form

Molecular Formula: C₉H₂₀N₄O₄

Molecular Weight: 248.281

Accurate Mass: 248.148456

Percentage Composition: C 43.54%; H 8.12%; N 22.57%; O 25.78%

Biological Source: Produced by *Streptomyces* spp.

Use/Importance: Active against gram-negative bacteria and *Staphylococcus* sp. Low toxicity

Physical Description: Amorph. powder

Solubility: Sol. H₂O; insol. MeOH, EtOH, EtOAc, CHCl₃, C₆H₆; BERDY SOL: Sol. H₂O; poorly sol. MeOH, hexane

UV: [neutral] λ_{max} (H₂O) (Berdy)

Other Data: Amphoteric

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ivn) 500 mg/kg

>>Derivative: 6-*N*-Leucyl

Synonym(s): Leucylnegamycin

CAS Registry Number: 35663-84-4

Molecular Formula: C₁₅H₃₁N₅O₅

Molecular Weight: 361.44

Accurate Mass: 361.23252

Percentage Composition: C 49.85%; H 8.64%; N 19.38%; O 22.13%

Biological Source: Prod. by *Streptomyces* spp.

Physical Description: Powder

Melting Point: Mp 127-133 dec.°

Optical Rotation: [α]_D²⁶ +4.8 (c, 2 in H₂O)

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

UV: [neutral] λ_{max} (H₂O) (Berdy)

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ivn) 500 mg/kg

>>Variant: (3*R*,5*S*)-form

Synonym(s): Epinegamycin

Molecular Formula: C₉H₂₀N₄O₄

Molecular Weight: 248.281

Accurate Mass: 248.148456

Percentage Composition: C 43.54%; H 8.12%; N 22.57%; O 25.78%

>>Derivative: 5-Deoxy

Synonym(s): Epideoxynegamycin. 3,6-Diaminohexanoic acid, 2-(carboxymethyl)-2-methylhydrazide, 9Cl

CAS Registry Number: 58773-34-5