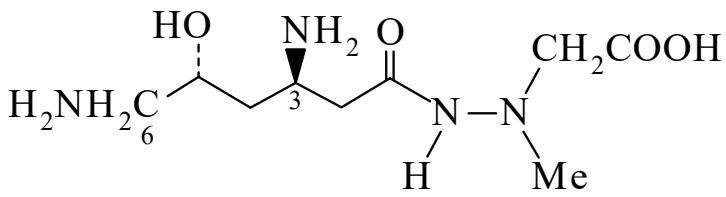
>>**Entry Name: Negamycin**
Synonym(s): 3,6-Diamino-2,3,4,6-tetradeoxyhexonic acid 2-(carboxymethyl)-2-methylhydrazide, 10Cl. 3,6-Diamino-5-hydroxyhexanoic acid 2-(carboxymethyl)-2-methylhydrazide, 9Cl



CAS Registry Number: 33404-78-3
Related CAS Registry Numbers(s): 65919-19-9

Molecular Formula: $C_9H_{20}N_4O_4$
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) (H_2O) (Derep)
Hazard & Toxicity: LD_{50} (mus, ivn) 400 mg/kg

>>**Variant:** (3*R*,5*R*)-form
Synonym(s): L-*threo*-form

Molecular Formula: $C_9H_{20}N_4O_4$
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. H_2O; insol. MeOH, EtOH, EtOAc, $CHCl_3$, C_6H_6; BERDY SOL: Sol. H_2O; poorly sol. MeOH, hexane
UV: [neutral] λ_{max} (H_2O) (Berdy)
Other Data: Amphoteric
Hazard & Toxicity: BERDY HAZD : LD_{50} (mus, ivn) 500 mg/kg

>>**Derivative:** 6-*N*-Leucyl
Synonym(s): Leucylnegamycin

CAS Registry Number: 35663-84-4

Molecular Formula: $C_{15}H_{31}N_5O_5$
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: $[\alpha]_D^{26}$+4.8 (c, 2 in H_2O)
Solubility: BERDY SOL: Sol. H_2O; poorly sol. MeOH, hexane
UV: [neutral] λ_{max} (H_2O) (Berdy)
Hazard & Toxicity: BERDY HAZD : LD_{50} (mus, ivn) 500 mg/kg

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

Molecular Formula: $C_9H_{20}N_4O_4$
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