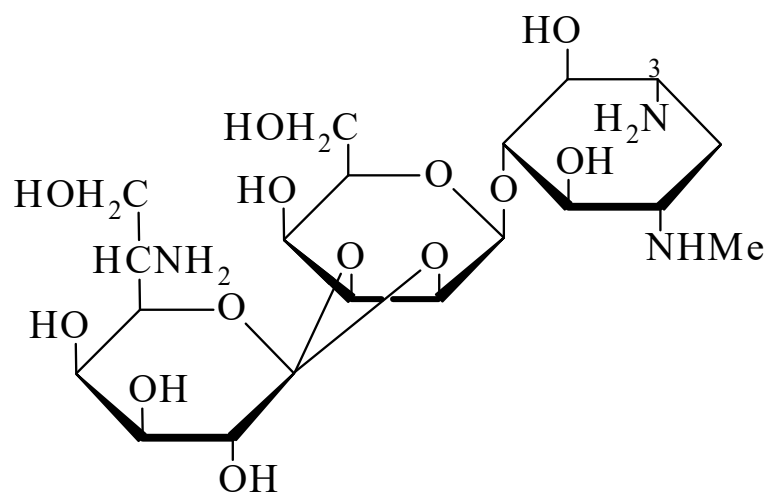




>>Entry Name: Hygromycin B

ENTRY UNDER REVIEW

Synonym(s): Hyanthelmix. Hygrovetine



CAS Registry Number: 31282-04-9

Molecular Formula: C₂₀H₃₇N₃O₁₃

Molecular Weight: 527.525

Accurate Mass: 527.232642

Percentage Composition: C 45.54%; H 7.07%; N 7.97%; O 39.43%

Biological Source: From *Streptomyces hygroscopicus*. FDA approved food additive for swine and poultry

Use/Importance: Shows broad-spectrum activity. Of practical importance against helminths including ascarids

Physical Description: Amorph.

Melting Point: Mp 160-180 dec.°

Optical Rotation: $[\alpha]_D^{26} +20.2$ (c, 1 in H₂O)

pKa Value: pK_{a1} 7.1; pK_{a2} 8.8

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

Other Data: Related to the Destomycin A [CKF10-N](#)

Hazard & Toxicity: LD₅₀ (rat, ipr) 63 mg/kg

Fluka: 56682

Sigma: J5856

>>Derivative: N³-Me

References:

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Dennin, L.J., *Anal. Biochem.*, 1963, 303, (*rev*)

Neuss, N. *et al.*, *Helv. Chim. Acta*, 1970, **53**, 2314, (*struct*)

Tamura, A. *et al.*, *J. Antibiot.*, 1976, **29**, 590; 592, (*Antibiotic AB74*)

Wright, D.E., *Tetrahedron*, 1979, **35**, 1207, (*uv, ir, pmr, ms, struct*)

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