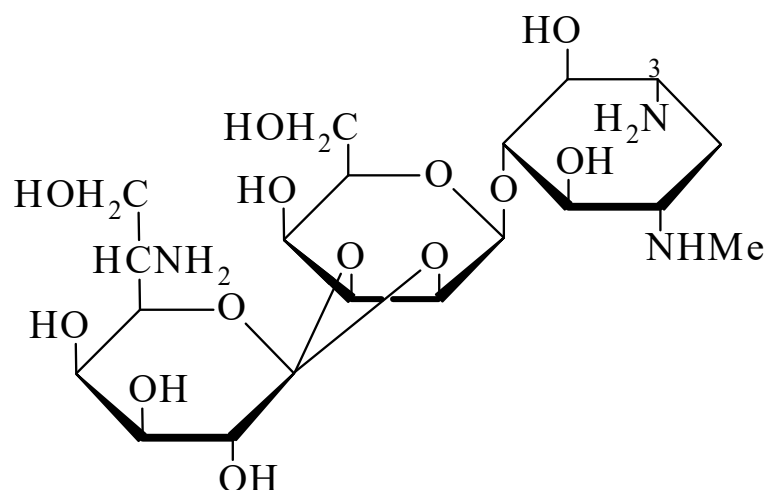




>>Entry Name: Hygromycin B

ENTRY UNDER REVIEW

Synonym(s): Hyanthelmx. Hygrovetine



CAS Registry Number: 31282-04-9

Molecular Formula:  $C_{20}H_{37}N_3O_{13}$

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  $H_2O$ )

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

UV: [neutral]  $\lambda_{max}$  0 (end) ( $\epsilon$ ) ( $H_2O$ ) (Derep)

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

Hazard & Toxicity: LD<sub>50</sub> (rat, ipr) 63 mg/kg

Fluka: 56682

Sigma: J5856

>>Derivative:  $N^3$ -Me

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