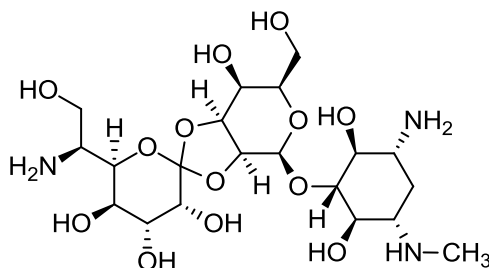


Hygromycin B

Code No.: **BIA-H1562**

Pack sizes: **5 mg, 25 mg**



Synonyms : Antihelmycin

Specifications

CAS #	: 31282-04-9
Molecular Formula	: C₂₀H₃₇N₃O₁₃
Molecular Weight	: 527.5
Source	: <i>Streptomyces hygroscopicus</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Hygromycin B is a trisaccharide aminoglycoside with a terminal cyclitol produced by *Streptomyces hygroscopicus*, reported by researchers at Eli Lilly in the early 1950s. Hygromycin B belongs to the destomycin family of aminoglycosides which contain a unique cyclic structure linking the terminal saccharide. Hygromycin B exhibits broad spectrum antibiotic and anthelmintic activity, and is used as a feed additive for swine and poultry. Hygromycin B inhibits polypeptide synthesis by binding peptidyl-tRNA and preventing translocation by Elongation Factor 2.

References

1. Hygromycin B, its production and treatment of intestinal parasites. McQuire J.M. and Mann R.L. US Patent 3,018,220 1962.
2. Hygromycin I. Preliminary studies on the production and biological activity of a new antibiotic. Pettinger R.C. et al., *Antibiot. Chemother.* 1953, 3, 1268.
3. Studies on the mode of action of hygromycin B, an inhibitor of translocation in eukaryotes. Gonzalez A. et al., *Biochim. Biophys. Acta* 1978, 521, 459.