PRODUCT DATA SHEET

Hygromycin B

Synonyms : Antihelmycin

Specifications
CAS # : 31282-04-9
Molecular Formula : C_{20}H_{37}N_{3}O_{13}
Molecular Weight : 527.5
Source : Streptomyces hygroscopicus
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

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