

For Research Use Only. Not For Use In Diagnostic Procedures

Version 2.0

潮霉素B

Hygromycin B > 90% (HPLC)



Do not eat

Store at +2 to +8° C

Cat.No. MG4890

Product Size : 100mg 1g 5g 20g Technical literature is available at: www.mesgenbio.com.E-mail MesGen Technical Services if you have questions on use of this system: tech@mesgenbio.com

Synonyms :

O-6-Amino-6-deoxy-L-glycero-D-galacto-heptopyranosylidene-

(1->2-3)-O-b-D- talopyranosyl- (1->5)- 2-deoxy-

N3-methyl-D-streptamine

CAS Number : 31282-04-9

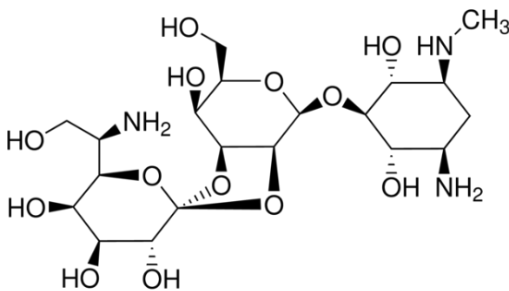
EC Number : 250-545-5

MDL Number : MFCD06795479

Molecular Weight : 527.52

Molecular Formula : C₂₀H₃₇N₃O₁₃

Purity >90% (HPLC)



Hygromycin B

Description

Hygromycin B is an aminoglycosidic antibiotic that inhibits protein synthesis in prokaryotes and eukaryotes. It is used to select and maintain the phenotype of eukaryotic cells that are stably transfected with the E. coli hygromycin-resistance gene (hyg or hph).

Key Applications

In gene transfer experiments as a selection agent.

Biochemical Physiological Actions

Blocks polypeptide synthesis and inhibits elongation. Specifically, it inhibits protein synthesis by interfering with translocation of the 70S ribosome and inducing misreading of the mRNA template.

Working Concentration

When using this product for mammalian cell selection the working concentration is generally between 50 mg/mL and 1 mg/mL, but at times may go as high as 1 mg/mL. The appropriate concentration for use must be determined empirically for each cell type.

Solubility

H₂O: 50 mg/mL

Source

Streptomyces hygrosopicus

Storage condition

at 2-8°C, 2 years

at -20°C, 3 years

Reference of this Product

Hongdan Yang et al. Mps1 regulates spindle morphology through MCRS1 to promote chromosome alignment. **Molecular Biology of the Cell**. 2019. Vol.30, No.9, 1051-1128

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