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DATASHEET

Hygromycin B

Product overview

NameHygromycin BCat NoHB4420

Applications Cell Culture, Plant Culture, Selection Agent

DescriptionBacterial selection antibiotic. Protein synthesis inhibitor

Images



Biological Data

Biological description

Bacterial selection antibiotic. Binds to the 70S and 80S subunits of bacterial ribosomes to inhibit protein synthesis.

Widely used as for selection and maintenance of prokaryotic and eukaryotic cells containing the hygromycin resistance gene.

Useful for dual-selection experiments when used in conjunction with another selection agent.

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Solubility & Handling

Solubility overview Storage instructions Storage of solutions

Shipping Conditions

Important

Soluble in water (100 mM)

+4°C

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name

O-6-Amino-6-deoxy-L-glycero-D-galacto-heptopyranosylidene-(1-2-3)-O-β-D-

talopyranosyl(1-5)-2-deoxy-N3-methyl-D-streptamine

Molecular Weight 527.52

Chemical structure

 $\begin{tabular}{lll} \textbf{Molecular Formula} & $C_{20}H_{37}N_3O_{13}$ \\ \textbf{CAS Number} & $31282\text{-}04\text{-}9$ \\ \textbf{PubChem identifier} & 23777801 \\ \end{tabular}$

SMILES CN[C@H]1C[C@H]([C@@H]([C@H]1O)O[C@H]2[C@@H]3[C@H]([C@H]([C@H](O2)C

O)O)O[C@]4(O3)[C@@H]([C@H]([C@H](O4)[C@@H](CO)N)O)O)O)N

InChiKey GRRNUXAQVGOGFE-CYGJMOISSA-N

MDL number MFCD06795479