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DATASHEET

Hygromycin B

Product overview

Name	Hygromycin B
Cat No	HB4420
Applications	Cell Culture, Plant Culture, Selection Agent
Description	Bacterial 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

Storage instructions	+4 °C
Solubility overview	Soluble in water (100 mM)
Important	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 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
Chemical structure	
Molecular Formula	C ₂₀ H ₃₇ N ₃ O ₁₃
CAS Number	31282-04-9
PubChem identifier	23777801
SMILES	<chem>CN[C@H]1C[C@H]([C@@H]([C@H]([C@@H]1O)O[C@H]2[C@@H]3[C@H]([C@H]([C@H](O2)CO)O)[C@]4(O3)[C@@H]([C@H]([C@H]([C@H](O4)[C@@H](CO)N)O)O)O)O)N</chem>
InChiKey	GRRNUXAQVGOGFE-CYGJMOISSA-N
MDL number	MFCD06795479
