

# Recombinant Escherichia coli Hygromycin-B 4-O-kinase

Catalog No: #AP72994

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Package Size: #AP72994-1 20ug #AP72994-2 100ug #AP72994-3 1mg

## Description

Product Name	Recombinant Escherichia coli Hygromycin-B 4-O-kinase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-341aaSequence Info:Full Length
Other Names	APH(4)Hygromycin B phosphotransferaseHygromycin-B kinase
Accession No.	P00557
Uniprot	P00557
GeneID	13905269;40047000;
Calculated MW	40 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MKKPELTATSVEKFLIEKFDSVSDLMQLSEGEESRAFSFDVGGRGYVLRVNSCADGFYKDRYVYRHFASAAL PIPEVLDIGEFSESLTYCISRRRAQGVTLQDLPETELPAVLQPVAEAMDAIAAADLSQTSGFGPFGPQGIGQYTT WRDFICAIADPHVYHWQTVMDDTVSASVAQALDELMLWAEDCPEVRHLVHADFGSNNVLTDNGRITAVIDWS EAMFGDSQYEVANIFFWRPWLACMEQQTRYFERRHPELAGSPRLRAYMLRIGLDQLYQSLVDGNFDDAAWA QGRCDIVRSGAGTVGRTQIARRSAAVWTDGCVEVLADSGNRRPSTRPRAKE
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

The aminoglycoside phosphotransferases achieve inactivation of their antibiotic substrates by phosphorylation. Only phosphorylates hygromycin and closely related compounds such as dethyl analogs and destomycin.

## References

Analysis of a bacterial hygromycin B resistance gene by transcriptional and translational fusions and by DNA sequencing.Kaster K.R., Burgett S.G., Rao R.N., Ingolia T.D.Nucleic Acids Res. 11:6895-6911(1983)Research Topic:Others

Note: This product is for in vitro research use only