Hpr Kinase/Phosphorylase (hprK) Staphylococcus Aureus Recombinant Protein

PRODUCT OVERVIEW

Product Name	HPr kinase/phosphorylase (hprK), Recombinant Protein
Full Product Name	Recombinant Staphylococcus aureus HPr kinase/phosphorylase (hprK)
Product Gene Name	hprK recombinant protein
Sequence	MLTTEKLVET LKLDLIAGEE GLSKPIKNAD ISRPGLEMAG YFSHYASDRI QLLGTTELSF YNLLPDKDRA GRMRKLCRPE TPAIIVTRGL QPPEELVEAA KELNTPLIVA KDATTSLMSR LTTFLEHALA KTTSLHGVLV DVYGVGVLIT GDSGIGKSET ALELVKRGHR LVADDNVEIR QINKDELIGK PPKLIEHLLE IRGLGIINVM TLFGAGSILT EKRIRLNINL ENWNKQKLYD RVGLNEETLS ILDTEITKKT IPVRPGRNVA VIIEVAAMNY RLNIMGINTA EEFSERLNEE IIKNSHKSEE
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	34,482 Da
Sequence Positions	1-310, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P60702
Species	Staphylococcus aureus (strain MW2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for hprK recombinant protein	MBS1125054 is a recombinant protein targeting hprK. Also known as Recombinant Staphylococcus aureus HPr kinase/phosphorylase (hprK). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of hprK recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for hprK. It may not necessarily be applicable to this product.

NCBI GI #	446880968
NCBI Accession #	WP_000958224.1
UniProt Primary Accession #	P60702
UniProt Secondary Accession #	Q99VL5
GenBank Nucleotide #	WP_000958224.1
NCBI Official Full Name	MULTISPECIES: HPr kinase/phosphorylase

UniProt Protein Name	HPr kinase/phosphorylase
UniProt Synonym Protein Names	HPr(Ser) kinase/phosphorylase
Protein Family	HPr kinase/phosphorylase
UniProt Gene Name	hprK
UniProt Synonym Gene Names	HPrK/P
UniProt Comments for hprK	Catalyzes the ATP- as well as the pyrophosphate-dependent phosphorylation of a specific serine residue in HPr, a phosphocarrier protein of the phosphoenolpyruvate-dependent sugar phosphotransferase system (PTS). HprK/P also catalyzes the pyrophosphate-producing, inorganic phosphate-dependent dephosphorylation (phosphorolysis) of seryl-phosphorylated HPr (P-Ser-HPr). The two antagonistic activities of HprK/P are regulated by several intracellular metabolites, which change their concentration in response to the absence or presence of rapidly metabolisable carbon sources (glucose, fructose, etc.) in the growth medium. Therefore, by controlling the phosphorylation state of HPr, HPrK/P is a sensor enzyme that plays a major role in the regulation of carbon metabolism and sugar transport: it mediates carbon catabolite repression (CCR), and regulates PTS-catalyzed carbohydrate uptake and inducer exclusion.
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