

Phosphocarrier protein HPr Recombinant Protein | ptsH recombinant protein

Recombinant Bacillus subtilis (strain 168) Phosphocarrier protein HPr

CATALOG #
AAA114657

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

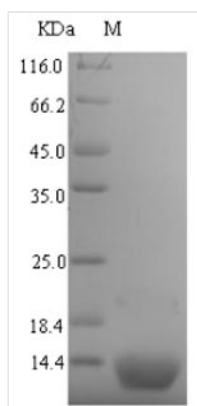
PRODUCT SYNONYMS

Phosphocarrier protein HPr; Recombinant Bacillus subtilis (strain 168) Phosphocarrier protein HPr; Histidine-containing protein; ptsH recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-88aa; Full Length
Sequence	AQKTFKVTAD SGIHARPATV LVQTASKYDA DVNLEYNGKT VNLKSIMGVM SLGIAKGAEI TISASGADEN DALNALEETM KSEGLGE
Sequence Length	88
Species	Bacillus subtilis (strain 168)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ptsH recombinant protein	General (non sugar-specific) component of the phosphoenolpyruvate-dependent sugar phosphotransferase system (sugar PTS). This major carbohydrate active-transport system catalyzes the phosphorylation of incoming sugar substrates concomitantly with their translocation across the cell membrane. The phosphoryl group from phosphoenolpyruvate (PEP) is transferred to the phosphoryl carrier protein HPr by enzyme I. Phospho-HPr then transfers it to the permease (enzymes II/III). P-Ser-HPr interacts with the catabolite control protein A (CcpA), forming a complex that binds to DNA at the catabolite response elements cre, operator sites preceding a large number of catabolite-regulated genes. Thus, P-Ser-HPr is a corepressor in carbon catabolite repression (CCR), a mechanism that allows bacteria to coordinate and optimize the utilization of available carbon sources. P-Ser-HPr also plays a role in inducer exclusion, in which it probably interacts with several non-PTS permeases and inhibits their transport activity.
References	"Phosphoenolpyruvate:sugar phosphotransferase system of Bacillus subtilis: nucleotide sequence of ptsX, ptsH and the 5'-end of ptsI and evidence for a ptsHI operon." Gonzy-Treboul G., Zagorec M., Rain-Guion M.-C., Steinmetz M. Mol. Microbiol. 3:103-112(1989)

NCBI AND UNIPROT INFORMATION

NCBI GI #	16078454
NCBI GeneID	939259
NCBI Accession #	NP_389273.1
NCBI GenBank Nucleotide #	NC_000964.3
UniProt Accession #	P08877
Molecular Weight	25.1 kDa
NCBI Official Full Name	phosphocarrier protein HPr
NCBI Official Symbol	ptsH
NCBI Protein Information	phosphocarrier protein HPr
UniProt Protein Name	Phosphocarrier protein HPr
UniProt Gene Name	ptsH
UniProt Entry Name	PTHP_BACSU

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/ptsh-recombinant-protein-e-coli/114657>