Transcriptional regulatory protein phoP (phoP) Recombinant Protein | phoP recombinant protein

Recombinant Escherichia coli Transcriptional regulatory protein phoP (phoP)

CATALOG #	HOST
AAA114942	**E Coli or Yeast or Baculovirus or Mammalian Cell**

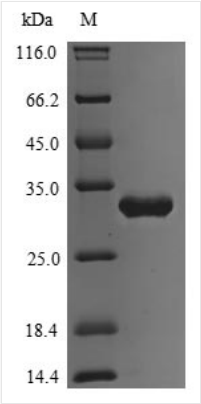
PRODUCT SYNONYMS

Transcriptional regulatory protein phoP (phoP); Recombinant Escherichia coli Transcriptional regulatory protein phoP (phoP); Transcriptional regulatory protein phoP; phoP 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	1-223aa; Full Length Protein
Sequence	MRVLVVEDNA LLRHHLKVQI QDAGHQVDDA EDAKEADYYL NEHIPDIAIV DLGLPDEDGL SLIRRWRSND VSLPILVLTA RESWQDKVEV LSAGADDYVT KPFHIEEVMA RMQALMRRNS GLASQVISLP PFQVDLSRRE LSINDEVIKL TAFEYTIMET LIRNNGKVVS KDSLMLQLYP DAELRESHTI DVLMGRLRKK IQAQYPQEVI TTVRGQGYLF ELR
Species	Escherichia coli (strain K12)
Production Note	**Special Offer:** The E Coli, Mammalian-Cell, Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli, Mammalian-Cell, Yeasthost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli, Mammalian-Cell, Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli, Mammalian-Cell, Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our **or email to** for more details.
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.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for phoP recombinant protein	Member of the two-component regulatory system PhoP/PhoQ involved in adaptation to low Mg2+ environments and the control of acid resistance genes. In low periplasmic Mg2+, PhoQ phosphorylates PhoP, resulting in the expression of PhoP-activated genes (PAG) and repression of PhoP-repressed genes (PRG). In high periplasmic Mg2+, PhoQ dephosphorylates phospho-PhoP, resulting in the repression of PAG and may lead to expression of some PRG. Mediates magnesium influx to the cytosol by activation of MgtA. Promotes expression of the two-component regulatory system rstA/rstB and transcription of the hemL, mgrB, nagA, slyB, vboR and yrbL genes. Feedback inhibited by MgrB, which seems to bind PhoQ, altering its activity and that of downstream effector PhoP. PhoP-regulated transcription is redox-sensitive, being activated when the periplasm becomes more reducing (deletion of dsbA/dsbB, or treatment with dithiothreitol). MgrB acts between DsbA/DsbB and PhoP/PhoQ in this pathway.

NCBI AND UNIPROT INFORMATION

NCBI GI #	16129093
NCBI GeneID	945697
NCBI Accession #	NP_415648.1
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P23836
Molecular Weight	29.0 kDa
NCBI Official Full Name	response regulator in two-component regulatory system with PhoQ
NCBI Official Symbol	phoP
NCBI Official Synonym Symbols	ECK1116; JW1116
NCBI Protein Information	response regulator in two-component regulatory system with PhoQ
UniProt Protein Name	Transcriptional regulatory protein PhoP
UniProt Gene Name	**phoP**
UniProt Entry Name	PHOP_ECOLI

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/phop-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/114942