

phrB recombinant protein

phrB, 1-472aa, E Coli, His tag, E Coli

CATALOG # AAA48814	HOST E Coli	APPLICATIONS SDS-Page
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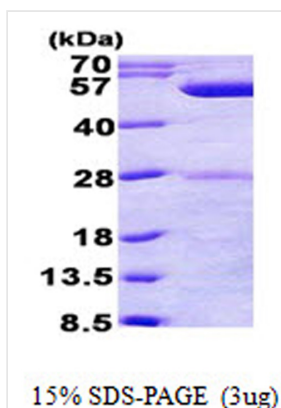
PRODUCT SYNONYMS

phrB; 1-472aa; E Coli; His tag; Deoxyribodipyrimidine photolyase; ECK0697; JW0698; phrB recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 1mM DTT
Concentration	0.25 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSMTTHLVW FRQDLRLHDN LALAAACRNS SARVLALYIA TPRQWATHNM SPRQAEILNA QLNLQIALA EKGIPLLFRE VDDFVASVEI VKQVCAENSV THLFYNYQYE VNERARDVEV ERALRNVCCE GFDDSVILPP GAVMTGNHEM YKVFTPFKNA WLKRLREGMP ECVAAPKVRSGSIEPSPSI TLNYPQRSFD TAHFPVEEKA AIAQLRQFCQ NGAGEYEQQR DFPVEGTSR LSASLATGGL SPRQCLHRL AEQPQALDGG AGSVWLNELI WREFYRHLIT YHPSLCKHRP FIAWTDREVQW QSNPAHLQAW QEGKTGYPIV DAAMRQLNST GWMHNRLRMI TASFLVKDLL IDWREGERYF MSQLIDGDLA ANNGGWQWAA STGTAAPYF RIFNPTTQGE KFDHEGEFIR QWLPELRDVP GKVVHEPWKW AQKAGVTLDY PQPIVEHKEA RVQTLAAYEA ARKGK
Sequence Length	1-472
Applicable Applications for phrB recombinant protein	SDS-PAGE
Tag Information	His-tag
Domain	1-472aa
Preparation and Storage	Can be stored at 2-8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for phrB recombinant protein	Deoxyribodipyrimidine photolyase, also known as phrB, is involved in repair of uV radiation-induced DNA damage. This protein catalyzes the light-dependent monomerization (300-600 nm) of cyclobutyl pyrimidine dimers (in cis-syn configuration), which are formed between adjacent bases on the same DNA strand upon exposure to ultraviolet radiation. Recombinant E Coli phrB protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for phrB recombinant protein	Enzymes & Proteases
References	Byrdin M., et al. (2003) Proc. Natl. Acad. Sci. u.S.A. 100:8676-8681; Weber S., et al. (2005) Biochim. Biophys. Acta. 1707:1-23;

NCBI AND UNIPROT INFORMATION

NCBI GI #	16128683
NCBI GeneID	947005
NCBI Accession #	NP_415236
NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P00914
Molecular Weight	56.1 kDa (495aa)
NCBI Official Full Name	deoxyribodipyrimidine photolyase, FAD-binding
NCBI Official Symbol	phr
NCBI Official Synonym Symbols	ECK0697; JW0698; phrB
NCBI Protein Information	deoxyribodipyrimidine photolyase, FAD-binding
UniProt Protein Name	Deoxyribodipyrimidine photo-lyase
UniProt Gene Name	phrB
UniProt Synonym Gene Names	phr

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://stage.aaabiotech.com/phrb-recombinant-protein-e-coli-sds-page/48814>