

Recombinant E.coli phrB protein

Catalog Number: ATGP2044

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-472aa

UniProt No.

P00914

NCBI Accession No.

NP_415236.1

Alternative Names

Deoxyribodipyrimidine photolyase, ECK0697, JW0698, phrB

PRODUCT SPECIFICATION

Molecular Weight

56.1 kDa (495aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

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.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>MTTHLVW FRQDLRLHDN LALAAACRNS SARVLALYIA TPRQWATHNM
SPRQAEлина QLNGLQIALA EKGIPLLFRE VDDFVASVEI VKQVCAENSV THLFYNYQYE VNERARDVEV ERALRNVVCE
GFDDSVILPP GAVMTGNHEM YKVFTPFKNA WLKRLREGMP ECVAAPKVRSGSIEPSPSI TLNYPRQSFD TAHFPVEEKA
AIAQLRQFCQ NGAGEYEQQR DFPAVEGTSR LSASLATGGL SPRQCLHRL AEQPQALDGG AGSVWLNELI WREFYRHLIT
YHPSLCKHRP FIAWTDRVQW QSNPAHLQAW QEGKTGYPIV DAAMRQLNST GWMHNRLRMI TASFLVKDLL IDWREGERYF
MSQLIDGDLA ANNGGWQWAA STGTDAAPYF RIFNPTTQGE KFDHEGEFIR QWLPELRDVP GKVVHEPWKW
AQKAGVTLDY PQPIVEHKEA RVQTLAAYEA ARKGK

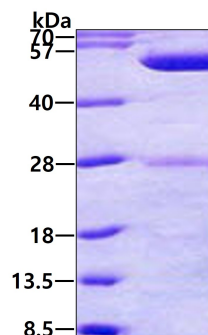
General References

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

DATA

SDS-PAGE



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