

Recombinant E.coli, deoxyribodipyrimidine photolyase, His-tagged

Cat. No. phrB-529E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	phrB, 1-472aa , E.coli, His tag, E.coli
Species	E.coli
Source	E.coli
ProteinLength	1-472 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 1mM DTT
Molecular Mass	56.1 kDa (495aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTTHLVW FRQDLRLHDN LALAAACRNS SARVLALYIA TPRQWATHNM SPRQAELINA QLNLGLQIALA EKGIPLLFRE VDDFVASVEI VKQVCAENSV THLFYNYQYE VNERARDVEV ERALRNVVCE

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GFDDSVILPP GAVMTGNHEM YKVFTPFKNA WLKRLREGMP ECVAAPKVRS
 SGSIEPSPSI TLNYPRQSFD TAHFPVEEKA AIAQLRQFCQ NGAGEYEQQR
 DFPAVEGTSR LSASLATGGL SPRQCLHRLL AEQPQALDGG AGSVWLNELI
 WREFYRHLIT YHPSLCKHRP FIAWTDREVQW QSNPAHLQAW QEGKTGYPIV
 DAAMRQLNST GWMHNRLRMI TASFLVKDLL IDWREGERYF MSQLIDGDLA
 ANNGGWQWAA STGTDAAPYF RIFNPTTQGE KFDHEGEFIR QWLPELRDVP
 GKVVHEPWKW AQKAGVTLDY PQPIVEHKEA RVQTLAAYEA ARKGK

Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)