

32-2669: phrB Recombinant Protein

Alternative Name : ECK0697,JW0698,phrB,phr,Deoxyribodipyrimidine photo-lyase,DNA photolyase,Photoreactivating enzyme,EC=4.1.99.3,b0708.

Description

Source : Escherichia Coli. It produced in E.coli is a single, non-glycosylated polypeptide chain containing 495 amino acids (1-472) and having a molecular mass of 56.1kDa.phrB is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Deoxyribodipyrimidine photo-lyase (phrB) is a member of the DNA photolyase class-1 family. phrB takes part in repair of UV radiation-induced DNA damage. phrB catalyzes the light-dependent monomerization (300-600 nm) of cyclobutyl pyrimidine dimers (in cis-syn configuration), which are formed between closest bases on the same DNA strand upon exposure to ultraviolet radiation.

Product Info

Amount : 10 µg
Purification : Greater than 90% as determined by SDS-PAGE.
Content : The phrB solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 50% glycerol and 1mM DTT.
Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please avoid freeze thaw cycles.
Amino Acid : MGSSHHHHHH SSSLVPRGSH MGSMTTHLVW FRQDLRLHDN LALAAACRNS SARVLALYIA
TPRQWATHNMSPRQELINA QLNLQIALA EKGIPLLFREVDVDFVASVEI VKQVCAENSV THLFYNYQYE
VNERARDVEV ERALRNVVCE GFDDSVILPP GAVMTGNHEMYKVFTPFKNA WLKRLREGMP ECVAAPKVRS
SGSIEPSPSI TLNYPRQSFDTAHFPVEEKAAIAQLRQFCQ NGAGEYEQQR DFPAVEGTSR
LSASLATGGLSRQCLHRL AEQPQALDGG AGSVWLNELI WREFYRHLIT YHPSLCKHRP
FIAWTDRVQWQSNPAHLQAW QEGKTGYPIV DAAMRQLNST GWMHNRLRMI TASFLVKDLL
IDWREGERYF MSQLIDGDLA ANNGGWQWAASTGTDAAPYF RIFNPTTQGE KFDHEGEFIR
QWLPELRDVPKVVHEPWKW AQKAGVTLDY PQPIVEHKEA RVQTLAAYEA ARKGGK.

