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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 SSGLVPRGSH MGSMTTHLVW FRQDLRLHDN LALAAACRNS SARVLALYIA TPRQWATHNMSPRQAELINA QLNGLQIALA EKGIPLLFREVDDFVASVEI VKQVCAENSV THLFYNYQYE VNERARDVEV ERALRNVVCE GFDDSVILPP GAVMTGNHEMYKVFTPFKNA WLKRLREGMP ECVAAPKVRS SGSIEPSPSI TLNYPRQSFD TAHFPVEEKAAIAQLRQFCQ NGAGEYEQQR DFPAVEGTSR LSASLATGGLSPRQCLHRLL AEQPQALDGG AGSVWLNELI WREFYRHLIT YHPSLCKHRP FIAWTDRVQWQSNPAHLQAW QEGKTGYPIV DAAMRQLNST GWMHNRLRMI TASFLVKDLL IDWREGERYF MSQLIDGDLA ANNGGWQWAASTGTDAAPYF RIFNPTTQGE KFDHEGEFIR QWLPELRDVPGKVVHEPWKW AQKAGVTLDY PQPIVEHKEA RVQTLAAYEA ARKGK.

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