

phrB, 1-472aa , E.coli, His tag, E.coli

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3th Edition

Synonyms:Deoxyribodipyrimidine photolyase, ECK0697, JW0698, phrB

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 Weight:56.1 kDa (495aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMTHLVWFRQDLRLHDNLALAAACRNSSARVLALYIATPRQWATHNMSPR
QAE LINAQLNGLQIALAEKGIPLLFREVDDFVASVEIVKQVCAENSVTHLFYNYQYEVNERARDVEVERALRNVVCE
GFDDSVILPPGAVMTGNHEMYKVFTPFKNAWLKRLREGMPECVAAPKVRSSGSIEPSITLNYPRQSFDTAHFPV
EEKAAIAQLRQFCQNGAGEYEQQRDFPAVEGTSRLSASLATGGLSPRQCLHRLLAEQPQALDGGAGSVWLNELIW
REFYRHLITYHPSLCKHRPFIAWTDRVQWQSNPAHLQAWQEGKTYPIVDAAMRQLNSTGWMHNRLRMITASFLV
KDLLIDWREGERYFMSQLIDGDLAANNGGWQWAASTGTDAAPYFRIFNPTTQGEKFDHEGEFIRQWLPELRDVPG
KVVHEPWKWAQKAGVTLDYPQPIVEHKEARVQTLAAYEAARKGK

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.