
Product Data Sheet

Product Name: phrB E.Coli
 Cat. No.: GP22088
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	800x600 ECK0697; JW0698; phrB; phr; Deoxyribodipyrimidinephotolyase; DNA photolyase; Photoreactivating enzyme; EC=4.1.99.3; b0708.		
Amino Acid Sequence	800x600 MGSSHHHHH SSGLVPRGSH MGSMTTHLVW FRQDLRLHDN LALAAACRNS SARVLALYIA TPRQWATHNMSPRQAEлина QLNGLQIALA EKGIPLLFREVDVDFVASVEI VKQVCAENSV THLFYNYQYE VNERARDVEV ERALRNVVCE GFDDSVILPP GAVMTGNHEMYKVFTPFKNA WLKRLREGMP ECVAAPKVRS SGSIEPSPSI TLNYPRQSFDA TAHFPVEEKAAIAQLRQFCQ NGAGEYEQQR DFPAVEGTSR LSASLATGGLSPRQCLHRL AEQPQALDGG AGSVWLNELI WREFYRHLIT YHPSLCKHRP FIAWTDRVQWQSNPAHLQAW QEGKTGYPIV DAAMRQLNST GWMHNRLRMI TASFLVKDLL IDWREGERYF MSQLIDGDLA ANNGGWQWAASTGTDAAPYF RIFNPTTQGE KFDHEGEFIR QWLPELRDVPKGKVVHEPWKW AQKAGVTLDY PQPIVEHKEA RVQTLAAYEA ARKGGK.		
Formulation	800x600 The phrB solution (0.25mg/ml) contains 20mM Tris-HClbuffer (pH 8.0), 0.2M NaCl, 50% glycerol and 1mM DTT.		

Introduction

Deoxyribodipyrimidine photo-lyase (phrB) is a member of the DNaphotolyase class-1 family. phrB takes part in repair of UV radiation-induced DNA damage. phrB catalyzes the light-dependent monomerization (300-600nm) of cyclobutyl pyrimidine dimers (incis-syn configuration), which are formed between closest bases on the same DNA strand upon exposure to ultraviolet radiation.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

800x600 800x600 phrB E.Coli Recombinant 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.

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