



Recombinant *Synechococcus* sp. Deoxyribodipyrimidine photo-lyase (phr)

Product Code	CSB-EP361494FPZ
Relevance	Involved in repair of UV radiation-induced DNA damage. 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.
Abbreviation	Recombinant <i>Synechococcus</i> sp. phr protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P05327
Alias	DNA photolyase Photoreactivating enzyme
Product Type	Recombinant Protein
Immunogen Species	<i>Synechococcus</i> sp. (strain ATCC 27144 / PCC 6301 / SAUG 1402/1) (<i>Anacystis nidulans</i>)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	AAPILFWHRRDLRLSDNIGLAAARAQSAQLIGLFLCLDPQILQSADMAPARVAYL QGCLQELQQRYQQAGSRLLLLQGDQPQLIPQLAQQLQAEAVYWNQDIEPYGR DRDGQVAAALKTAGIRAVQLWDQLLHSPDQILSGSGNPYSVYGFVFNWQA QPKPTPVATPTELVDLSPEQLTAIAPLLLSELPTLTKQLGFDWDGGFPVEPGETA AIARLQEFCDRAIADYDPQRNFP AEAGTSGLSPALKFGAIGIRQAWRAASAAHA LSRSDEARNSIRVWQQELAWREFYQHLYHFP SLADGPYRSLWQQFPWENR EALFTAQTGYPVDAAMRQLTETGWMHNRCWMIVASFLT KDLIIDWRR GEQFFMQHLVDGDLAANNGGWQWSASSGMDPKPLRIFNPASQAKKFDATAT YIKRWLPELRHVHPKDLISGEITPIGRRGY PAPIVNHNL RQKQFKALYNQLKAAI AEPEAEPDS
Research Area	Epigenetics and Nuclear Signaling
Source	<i>E.coli</i>
Target Names	phr
Protein Names	Recommended name: Deoxyribodipyrimidine photo-lyase EC= 4.1.99.3 Alternative name(s): DNA photolyase Photoreactivating enzyme
Expression Region	2-484aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	74.3kDa

