

Recombinant Synechococcus sp. PHR Protein (2-484 aa), His-SUMO-Myc-tagged

Cat. No. PHR-2112S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Synechococcus sp. (strain ATCC 27144/PCC 6301/SAUG 1402/1) (Anacystis nidulans) PHR Protein (2-484 aa) is produced by E. coli expression system. This protein is fused with a 10xHis-SUMO tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length of Mature Protein.
Species	Synechococcus sp.
Source	E.coli
ProteinLength	2-484 aa
Description	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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	74.3 kDa
AA Sequence	AAPILFWHRRDLRLSDNIGLAAARAQSAQLIGLFCLDPQILQSADMAPARVAYLQGCL QELQQRYQQAGSRLLLLQGDPQHLPQLAQQQLQAEAVYWNQDIEPYGRDRDGQVA AALKTAGIRAVQLWDQLLHSPDQILSGSGNPYSVYGPFWKNWQAQPKPTPVATPTE

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LVDLSPEQLTAIAPLLLSELPTLKQLGFDWDGGFPVEPGETAAIARLQEFCDRAIADY
 DPQRNFP AEAGTSGLS PALKF GAIGIRQAWRAASAAHALSRSEARN SIRVWQQEL
 AWREFYQH ALYHFP SLADGPYRSLWQQFPWENREALFTAWTQAQTGYPIVDAAMR
 QLTETGWMHNR CWMIVASFLT KDLIIDWRRGEQFFMQHLVDGDLAANN GGWQWS
 ASSGMDPKPLR IFNPASQAKKFDATATYIKRWLP ELRHVHPKDLISGEITPIGRRGYP
 APIVNHNL RQKQFKALYNQLKAAIAEPEAEPS

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Official Symbol [PHR](#)

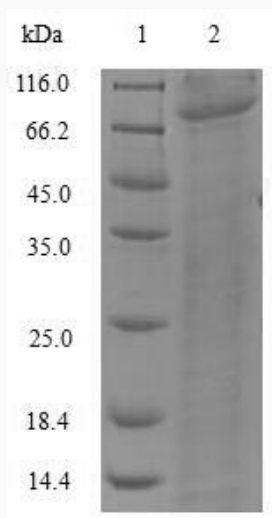
Synonyms phr; DNA photolyase Photoreactivating enzyme;

UniProt ID [P05327](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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