Cytochrome B6-F Complex Iron-Sulfur Subunit (petC) Synechococcus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cytochrome b6-f complex iron-sulfur subunit (petC), Recombinant Protein
Full Product Name	Recombinant Synechococcus sp. Cytochrome b6-f complex iron-sulfur subunit (petC)
Product Gene Name	petC recombinant protein
Product Synonym Gene Name	petC
Product Synonym Names	Recombinant Cytochrome b6-f complex iron-sulfur subunit (petC); Cytochrome b6-f complex iron-sulfur subunit EC= 1.10.9.1; Plastohydroquinone:plastocyanin oxidoreductase iron-sulfur protein; ISP; RISP Rieske iron-sulfur protein
Sequence	MTQLSGSSDV PDLGRRQFLN LLWVGTAAGT ALGGLYPVIK YFIPPSSGGA GGGVIAKDAL GNDIIVSDYL QTHTAGDRSL AQGLKGDPTY VVVEGDNTIS SYGINAICTH LGCVVPWNTA ENKFMCPCHG SQYDETGKVV RGPAPLSLAL VHAEVTEDDK ISFTDWTETD FRTDEAPWWA
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	19,178 Da
Sequence Positions	1-180
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
Chromosome Location	NC_010475.1 (1995000..1995542)
3D Structure	ModBase 3D Structure for P26292
Species	Synechococcus sp. (strain 27264 / PCC 7002 / PR-6) (Agmenellum quadruplicatum)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for petC recombinant protein	MBS1159592 is a recombinant protein targeting petC. Also known as Recombinant Synechococcus sp. Cytochrome b6-f complex iron-sulfur subunit (petC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of petC recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for petC. It may not necessarily be applicable to this product.

NCBI GI #	170078514
NCBI GeneID	6057819
NCBI Accession #	YP_001735152.1

UniProt Primary Accession #	P26292
UniProt Secondary Accession #	B1XQK1
UniProt Related Accession #	P26292
GenBank Nucleotide #	NC_010475.1
NCBI Official Full Name	cytochrome b6-f complex iron-sulfur subunit
NCBI Official Symbol	petC
UniProt Protein Name	Cytochrome b6-f complex iron-sulfur subunit
UniProt Synonym Protein Names	Plastohydroquinone:plastocyanin oxidoreductase iron-sulfur protein; ISP; RISP; Rieske iron-sulfur protein
Protein Family	Cytochrome
UniProt Gene Name	petC
UniProt Synonym Gene Names	ISP; RISP
UniProt Entry Name	UCRI_SYNP2
NCBI Protein Information	cytochrome b6-f complex iron-sulfur subunit
UniProt Comments for petC	Function: Component of the cytochrome b6-f complex, which mediates electron transfer between photosystem II (PSII) and photosystem I (PSI), cyclic electron flow around PSI, and state transitions By similarity. HAMAP-Rule MF_01335 Catalytic activity: Plastoquinol + 2 oxidized plastocyanin + 2 H+(Side 1) = plastoquinone + 2 reduced plastocyanin + 2 H+(Side 2). HAMAP-Rule MF_01335 Cofactor: Binds 1 2Fe-2S cluster per subunit By similarity. HAMAP-Rule MF_01335 Subunit structure: The 4 large subunits of the cytochrome b6-f complex are cytochrome b6, subunit IV (17 kDa polypeptide, PetD), cytochrome f and the Rieske protein, while the 4 small subunits are PetG, PetL, PetM and PetN. The complex functions as a dimer By similarity. Subcellular location: Cellular thylakoid membrane; Single-pass membrane protein By similarity. Note: The transmembrane helix obliquely spans the membrane in one monomer, and its extrinsic C-terminal domain is part of the other monomer By similarity. HAMAP-Rule MF_01335 Miscellaneous: The Rieske iron-sulfur protein is a high potential 2Fe-2S protein. HAMAP-Rule MF_01335 Sequence similarities: Contains 1 Rieske domain.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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