Phycocyanobilin:ferredoxin Oxidoreductase (pcyA) Nostoc Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phycocyanobilin:ferredoxin oxidoreductase (pcyA), Recombinant Protein
Full Product Name	Recombinant Nostoc sp. Phycocyanobilin:ferredoxin oxidoreductase (pcyA)
Product Gene Name	pcyA recombinant protein
Product Synonym Gene Name	pcyA
Sequence	MSLTSIPSLR EQQHPLIRQL ADCIEEVWHQ HLDLSPYHLP AELGYVEGRL EGEKLTIENR CYQTPQFRKM HLELAKVGNM LDILHCVMFP RPEYDLPMFG CDLVGGRGQI SAAIADLSPV HLDRTLPESY NSALTSLNTL NFSQPRELPE WGNIFSDFCI FVRPSSPEEE AMFLGRVREF LQVHCQGAIA ASPVSAEQKQ QILAGQHNYC SKQQQNDKTR RVLEKAFGVD WAENYMTTVL FDLPE
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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	27,959 Da
Sequence Positions	1-245, Full length protein
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.
3D Structure	ModBase 3D Structure for Q93TN0
Species	Nostoc sp. (strain PCC 7120 / UTEX 2576)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for pcyA recombinant protein	MBS1422402 is a recombinant protein targeting pcyA. Also known as Recombinant Nostoc sp. Phycocyanobilin:ferredoxin oxidoreductase (pcyA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of pcyA 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 pcyA. It may not necessarily be applicable to this product.

NCBI GI #	499307075
NCBI Accession #	WP_010997850.1
UniProt Primary Accession #	Q93TN0
GenBank Nucleotide #	WP_010997850.1
NCBI Official Full Name	MULTISPECIES: phycocyanobilin:ferredoxin oxidoreductase

UniProt Protein Name	Phycocyanobilin:ferredoxin oxidoreductase
Protein Family	Phycocyanobilin:ferredoxin oxidoreductase
UniProt Gene Name	pcyA
UniProt Synonym Gene Names	PCB:ferredoxin oxidoreductase
UniProt Comments for pcyA	Catalyzes the four-electron reduction of biliverdin IX-alpha (2-electron reduction at both the A and D rings); the reaction proceeds via an isolatable 2-electron intermediate, 181,182-dihydrobiliverdin. Upon overexpression in E.coli with PCB:ferredoxin oxidoreductase, CpeS and either CpcB or PecB permits synthesis of phycocyanin-coupled CpcB or PecB.
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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