Photosystem I Iron-Sulfur Center (psaC) Staurastrum Punctulatum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Photosystem I iron-sulfur center (psaC), Recombinant Protein
Full Product Name	Recombinant Staurastrum punctulatum Photosystem I iron-sulfur center (psaC)
Product Gene Name	psaC recombinant protein
Product Synonym Gene Name	psaC
Sequence	AHSVKIYDTC IGCTQCVRAC PTDVLEMIPW DGCKASQIAS APRTEDCVGC KRCESACPTD FLSVRVYLGS ETTRSMGLAY
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	8,802 Da
Sequence Positions	2-81, 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 Q32S09
Species	Staurastrum punctulatum (Green alga)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for psaC recombinant protein	MBS1354806 is a recombinant protein targeting psaC. Also known as Recombinant Staurastrum punctulatum Photosystem I iron-sulfur center (psaC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of psaC 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 psaC. It may not necessarily be applicable to this product.

NCBI GI #	108796808
NCBI GeneID	4108666
NCBI Accession #	YP_636367.1
UniProt Primary Accession #	Q32S09
UniProt Related Accession #	Q32S09
GenBank Nucleotide #	NC_008116.1

NCBI Official Full Name	photosystem I subunit VII (chloroplast)
NCBI Official Symbol	psaC
UniProt Protein Name	Photosystem I iron-sulfur center
UniProt Synonym Protein Names	9 kDa polypeptide
Protein Family	Outer membrane usher protein
UniProt Gene Name	psaC
NCBI Protein Information	photosystem I iron-sulfur center
UniProt Comments for psaC	Apoprotein for the two 4Fe-4S centers FA and FB of photosystem I (PSI); essential for photochemical activity. FB is the terminal electron acceptor of PSI, donating electrons to ferredoxin. The C-terminus interacts with PsaA/B/D and helps assemble the protein into the PSI complex. Required for binding of PsaD and PsaE to PSI. PSI is a plastocyanin-ferredoxin oxidoreductase, converting photonic excitation into a charge separation, which transfers an electron from the donor P700 chlorophyll pair to the spectroscopically characterized acceptors A0, A1, FX, FA and FB in turn.
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