Photosystem II Reaction Center Protein L (psbL) Buxus Microphylla Recombinant Protein

PRODUCT OVERVIEW

Product Name	Photosystem II reaction center protein L (psbL), Recombinant Protein
Full Product Name	Recombinant Buxus microphylla Photosystem II reaction center protein L (psbL), partial
Product Gene Name	psbL recombinant protein
Sequence	MTQSNPNEQN VELNRTSLYW GLLLIFVLAV LFSNYFFN
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	4,497 Da
Sequence Positions	1-38
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 A6MM51
Species	Buxus microphylla (Little leaf boxwood) (Japanese boxwood)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for psbL recombinant protein	MBS1128885 is a recombinant protein targeting psbL. Also known as Recombinant Buxus microphylla Photosystem II reaction center protein L (psbL), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of psbL 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 psbL. It may not necessarily be applicable to this product.

NCBI GI #	149390555
NCBI GeneID	5236865
NCBI Accession #	YP_001294199.1
UniProt Primary Accession #	A6MM51
UniProt Related Accession #	A6MM51
GenBank Nucleotide #	NC_009599.1
NCBI Official Full Name	photosystem II protein L (chloroplast)
NCBI Official Symbol	psbL

UniProt Protein Name	Photosystem II reaction center protein L
Protein Family	Photosystem II reaction center protein
UniProt Gene Name	psbL
UniProt Synonym Gene Names	PSII-L
NCBI Protein Information	photosystem II protein L
UniProt Comments for psbL	One of the components of the core complex of photosystem II (PSII). PSII is a light-driven water:plastoquinone oxidoreductase that uses light energy to abstract electrons from H2O, generating O2 and a proton gradient subsequently used for ATP formation. It consists of a core antenna complex that captures photons, and an electron transfer chain that converts photonic excitation into a charge separation. This subunit is found at the monomer-monomer interface and is required for correct PSII assembly and/or dimerization.
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