Photosystem II CP47 Chlorophyll Apoprotein (psbB) Hordeum Vulgare Recombinant Protein

PRODUCT OVERVIEW

Product Name	Photosystem II CP47 chlorophyll apoprotein (psbB), Recombinant Protein
Full Product Name	Recombinant Hordeum vulgare Photosystem II CP47 chlorophyll apoprotein (psbB)
Product Gene Name	psbB recombinant protein
Product Synonym Gene Name	Recombinant Photosystem II CP47 chlorophyll apoprotein (psbB); Photosystem II CP47 chlorophyll apoprotein; PSII 47 kDa protein Protein CP-47
Sequence	MGLPWYRVHT VVLNDPGRLL AVHIMHTALV SGWAGSMALY ELAVFDPSDP VLDPMWRQGM FVIPFMTRLG ITDSWGGWSI SGGTVTNPGI WSYEGVAATH IVFSGLCFLA AIWHWVYWDL EIFSDERTGK PSLDLPKIFG IHLFLAGVAC FGFGAFHVTG LYGPGIWVSD PYGLTGKVQA VNPAWGAEGF DPFVPGGIAS HHIAAGTLGI LAGLFHLSVR PPQRLYKGLR MGNIETVLSS SIAAVFFAAF VVAGTMWYGS ATTPIELFGP TRYQWDQGYF QQEIYRRVSN GLAENLSLSE AWSKIPEKLA FYDYIGNNPA KGGLFRAGSM DNGDGIAVGW LGHPVFRDKE GRELFVRRMP TFFETFPVVL VDEEGIVRAD VPFRRAESKY SVEQVGVTVE FYGGELNGVN YSDPATVKKY ARRSQLGEIF ELDRATLKSD GVFRSSPRGW FTFGHATFAL LFFFGHIWHG ARTLFRDVFA GIDPDLDAQV EFGTFQKVGD PTTKKQAV
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	56,133 Da
Sequence Positions	1-508
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_008590.1 (69411..70937)
3D Structure	ModBase 3D Structure for P10900
Species	Hordeum vulgare (Barley)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for psbB recombinant protein	MBS1230817 is a recombinant protein targeting psbB. Also known as Recombinant Hordeum vulgare Photosystem II CP47 chlorophyll apoprotein (psbB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. psbB
Other Notes	Small volumes of psbB 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 psbB. It may not necessarily be applicable to this product.

NCBI GI #	118430412

NCBI GeneID	4525075
NCBI Accession #	YP_874678.1
UniProt Primary Accession #	P10900
UniProt Secondary Accession #	A1E9L6
GenBank Nucleotide #	NC_008590.1
NCBI Official Full Name	photosystem II CP47 chlorophyll apoprotein
NCBI Official Symbol	psbB
UniProt Protein Name	Photosystem II CP47 chlorophyll apoprotein
UniProt Synonym Protein Names	PSII 47 kDa protein; Protein CP-47
Protein Family	Photosystem II CP47 reaction center protein
UniProt Gene Name	psbB
UniProt Entry Name	PSBB_HORVU
NCBI Protein Information	photosystem II 47 kDa protein
UniProt Comments for psbB	Function: One of the components of the core antenna complex of photosystem II. It binds chlorophyll and helps catalyze the primary light-induced photochemical processes of photosystem II By similarity. Subunit structure: PSII consists of a core antenna complex that captures photons, and an electron transfer chain that converts photonic excitation into a charge separation. PSII forms dimeric complexes By similarity. Subcellular location: Plastid › chloroplast thylakoid membrane; Multi-pass membrane protein. Sequence similarities: Belongs to the PsbB/PsbC family. PsbB subfamily.
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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