Chlorophyll a-B Binding Protein 3, Chloroplastic (CAB3) Glycine Max Recombinant Protein

PRODUCT OVERVIEW

Product Name	Chlorophyll a-b binding protein 3, chloroplastic (CAB3), Recombinant Protein
Full Product Name	Recombinant Glycine max Chlorophyll a-b binding protein 3, chloroplastic (CAB3)
Product Gene Name	CAB3 recombinant protein
Product Synonym Gene Name	CAB3
Product Synonym Names	Recombinant Chlorophyll a-b binding protein 3, chloroplastic (CAB3); Chlorophyll a-b binding protein 3, chloroplastic; LHCII type I CAB-3; LHCP
Sequence	RKTVTKQVSS GSPWYGPDRV KYLGPFSGEP PSYLTGEFPG DYGWDTAGLS ADPETFAKNR ELEVIHSRWA MLGALGCVFP ELLSRNGVKF GEAVWFKAGS QIFSEGGLDY LGNPSLIHAQ SILAIWATQV ILMGAVEGYR IAGGPLGEVT DPIYPGGSFD PLGLADDPEA FAELKVKELK NGRLAMFSMF GFFVQAIVTG KGPLENLADH LAGPVNNNAW AYATNFVPGK
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	27,862 Da
Sequence Positions	34-263
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 P09756
Species	Glycine max (Soybean) (Glycine hispida)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CAB3 recombinant protein	MBS1151430 is a recombinant protein targeting CAB3. Also known as Recombinant Glycine max Chlorophyll a-b binding protein 3, chloroplastic (CAB3). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CAB3 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 CAB3. It may not necessarily be applicable to this product.

NCBI GI #	115800
NCBI Accession #	P09756.1
UniProt Primary Accession #	P09756
NCBI Official Full Name	Chlorophyll a-b binding protein 3, chloroplastic

UniProt Protein Name	Chlorophyll a-b binding protein 3, chloroplastic
UniProt Synonym Protein Names	LHCII type I CAB-3
Protein Family	Coenzyme A biosynthesis protein
UniProt Gene Name	CAB3
UniProt Synonym Gene Names	LHCP
UniProt Entry Name	CB23_SOYBN
UniProt Comments for CAB3	Function: The light-harvesting complex (LHC) functions as a light receptor, it captures and delivers excitation energy to photosystems with which it is closely associated. Cofactor: Binds at least 14 chlorophylls (8 Chl-a and 6 Chl-b) and carotenoids such as lutein and neoxanthin By similarity. Subunit structure: The LHC complex consists of chlorophyll a-b binding proteins. Subcellular location: Plastid › chloroplast thylakoid membrane; Multi-pass membrane protein. Domain: The N-terminus of the protein extends into the stroma where it is involved with adhesion of granal membranes and post-translational modifications; both are believed to mediate the distribution of excitation energy between photosystems I and II. Post-translational modification: Photoregulated by reversible phosphorylation of its threonine residues By similarity. Sequence similarities: Belongs to the light-harvesting chlorophyll a/b-binding (LHC) protein family.
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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