Chloroplast Envelope Membrane Protein (cemA) Pisum Sativum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Chloroplast envelope membrane protein (cemA), Recombinant Protein
Full Product Name	Recombinant Pisum sativum Chloroplast envelope membrane protein (cemA)
Product Gene Name	cemA recombinant protein
Product Synonym Gene Name	cemA; hbp, ycf10
Product Synonym Names	Recombinant Chloroplast envelope membrane protein (cemA); Chloroplast envelope membrane protein; Heme-binding protein
Sequence	MAKKKAFIPL LCLTSIVFLP WCISFTFKKS LESWITHWYN TKESEIFLNT IQEKSILKKF LEFEELFLLD EMLKEYPETR LQNLRIEIYK ETIQLIQTNN QDHIHTILHF CTNIICFLIL SVYSIRGNQE LIILNSWVQE FLYNLSDTIK AFSILFLIEF CVGYHSTGGW ELMIGSVYKD FGFIPNDHII SFLVSILPAI LDTIFKYWIF RYLNRVSPSL VLIYDSIPFQ E
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	27,409 Da
Sequence Positions	1-231
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_014057.1 (69067..69762, complement)
3D Structure	ModBase 3D Structure for P20150
Species	Pisum sativum (Garden pea)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cemA recombinant protein	MBS1230620 is a recombinant protein targeting cemA. Also known as Recombinant Pisum sativum Chloroplast envelope membrane protein (cemA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cemA 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 cemA. It may not necessarily be applicable to this product.

NCBI GI #	295137009
NCBI GeneID	9073104
NCBI Accession #	YP_003587556.1

UniProt Primary Accession #	P20150
UniProt Related Accession #	S12124
GenBank Nucleotide #	NC_014057.1
NCBI Official Full Name	envelope membrane protein
NCBI Official Symbol	cemA
UniProt Protein Name	Chloroplast envelope membrane protein
UniProt Synonym Protein Names	Heme-binding protein
Protein Family	Chloroplast envelope membrane protein
UniProt Gene Name	cemA
UniProt Synonym Gene Names	hbp; ycf10
UniProt Entry Name	CEMA_PEA
NCBI Protein Information	envelope membrane protein
UniProt Comments for cemA	Function: May be involved in proton extrusion. Indirectly promotes efficient inorganic carbon uptake into chloroplasts By similarity. HAMAP-Rule MF_01308 Subcellular location: Plastid › chloroplast inner membrane; Multi-pass membrane protein HAMAP-Rule MF_01308. Sequence similarities: Belongs to the Cema 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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