Chlorophyll a-b binding protein 8, chloroplastic (CAB8), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP17921*

Species
Pisum sativum (Garden pea)

Full Product Name
Recombinant Pisum sativum Chlorophyll a-b binding protein 8, chloroplastic (CAB8)

Product Gene Name
CAB8 recombinant protein

Product Synonym Gene Name
Recombinant Chlorophyll a-b binding protein 8, chloroplastic (CAB8); Chlorophyll a-b binding protein 8, chloroplastic; LHCII type I CAB-8

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
RKSATTKKVA SSGSPWYGPD RVKYLGPFSG ESPSYLTGEF PGDYGWDTAG LSADPETFSK NRELEVIHSR WAMLGALGCV FPELLSRNGV KFGEAVWFKA GSQIFSEGGL DYLGNPSLVH AQSILAIWAT QVILMGAVEG YRIAGGPLGE VVDPLYPGGS FDPLGLADDP EAFAELKVKE LKNGRLAMFS MFGFFVQAIV TGKGPLENLA DHLSDPVNNN AWSYATNFVP GK

Sequence Positions
37-268

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
28,526 Da

Storage
Store at -20℃. For extended storage, store at -20 or -80℃.

Protein Family
Chlorophyll a-b binding protein

NCBI Accession
P27490.1

NCBI GI
115814

NCBI Official Full Name
Chlorophyll a-b binding protein 8, chloroplastic

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

Chlorophyll a-b binding protein 8, chloroplastic (CAB8), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP17921*

UniProt Gene Name
CAB8

UniProt Synonym Gene Names
LHCB1

UniProt Protein Name
Chlorophyll a-b binding protein 8, chloroplastic

UniProt Synonym Protein Names
LHCII type I CAB-8

UniProt Entry Name
CB28_PEA

UniProt Primary Accession
P27490

UniProt Comments
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.May channel protons produced in the catalytic Mn center of water oxidation into the thylakoid lumen.

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.

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/