Chlorophyll a-b binding protein 4, chloroplastic (CAB4), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP14951*

Species
Solanum lycopersicum (Tomato) (Lycopersicon esculentum)

Full Product Name
Recombinant Solanum lycopersicum Chlorophyll a-b binding protein 4, chloroplastic (CAB4)

Product Synonym Names
Recombinant Chlorophyll a-b binding protein 4, chloroplastic (CAB4); Chlorophyll a-b binding protein 4, chloroplastic; LHCII type I CAB-4; LHCP

Product Gene Name
CAB4 recombinant protein

Product Synonym Gene Name
CAB4

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

Sequence
RRTVKSAPQS IWYGEDRPKY LGPFSEQTPS YLTGEFPGDY GWDTAGLSAD PETFARNREL EVIHCRWAML GALGCVFPEI LSKNGVKFGE AVWFKAGSQI FSEGGLDYLG NPNLVHAQSI LAIWACQVVL MGFVEGYRVG GGPLGEGLDK IYPGGAFDPL GLADDPEAFA ELKVKEIKNG RLAMFSMFGF FVQAIVTGKG PIENLSDHIN DPVANNAWAY ATNFVPGK

Sequence Positions
38-265

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
28,775 Da

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

NCBI Accession
NP_001234739.1

NCBI GI
407970998

NCBI GenBank Nucleotide
NM_001247810.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID
543975

NCBI Official Full Name
chlorophyll a-b binding protein 4, chloroplastic

NCBI Official Symbol
CAB4

NCBI Official Synonym Symbols
LHCP

NCBI Protein Information
chlorophyll a-b binding protein 4, chloroplastic; LHCII type I CAB-4

UniProt Gene Name
CAB4

UniProt Synonym Gene Names
LHCP

UniProt Protein Name
Chlorophyll a-b binding protein 4, chloroplastic

UniProt Synonym Protein Names
LHCII type I CAB-4

UniProt Entry Name
CB24_SOLLC

UniProt Primary Accession
P14278

UniProt Related Accession
P14278

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.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.

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