Chlorophyll a-b binding protein C, chloroplastic (CABC), Recombinant Protein



Cat RP17195

Species

Nicotiana plumbaginifolia (Leadwort-leaved tobacco) (Tex-Mex tobacco)

Full Product Name

Recombinant Nicotiana plumbaginifolia Chlorophyll a-b binding protein C, chloroplastic (CABC)

Product Synonym Names

Recombinant Chlorophyll a-b binding protein C, chloroplastic (CABC); Chlorophyll a-b binding protein C, chloroplastic; LHCII type I CAB-C; LHCP

Product Gene Name

CABC recombinant protein

Product Synonym Gene Name

CABC

Purity

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

Sequence

RKTASKAKPV SSSSPWYGPN RVKYLGPFSG ESPSYLTGEF PGDYGWDTAG LSADPETFAK NRELEVIHCR WAMLGALGCV FPELLARNGV KFGEAVWFKG GSQIFSQGGL DYLGNPSLVH AQSILAIWAC QVVLMGAVEG YRVAGEPLGE VVDPLYPGGS FDPLGLAEDP EAFAELKVKE IKNGRLAMFS MFGFFVQAIV TGKGPLENLA DHLADPVNNN AWAYATNFVP GK

Sequence Positions

36-267

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

28,369 Da

Storage

Store at -20°C. For extended storage, store at -20 or -80°C.

Protein Family

Chlorophyll a-b binding protein

NCBI Accession

P12469.1

NCBI GI#

115795

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Chlorophyll a-b binding protein C, chloroplastic (CABC), Recombinant Protein



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NCBI Official Full Name

Chlorophyll a-b binding protein C, chloroplastic

UniProt Gene Name

CABC

UniProt Synonym Gene Names

LHCP

UniProt Protein Name

Chlorophyll a-b binding protein C, chloroplastic

UniProt Synonym Protein Names

LHCII type I CAB-C

UniProt Entry Name

CB23_NICPL

UniProt Primary Accession #

P12469

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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