

Geranylgeranyl diphosphate reductase, chloroplastic (CHLP), Recombinant Protein

Cat RP11315

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Geranylgeranyl diphosphate reductase, chloroplastic (CHLP)

Product Gene Name

CHLP recombinant protein

Product Synonym Gene Name

CHLP

Purity

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

Sequence

AAASSPKLPS GRRLRVAVVG GGPAGGAAAE ALAKGGVETV LIERKLDNCK PCGGAIPLCM VSEFDLPLDL
VDRKVRKMKM ISPSNVAVDI GGTLPHEYI GMVRREVLDA YLRSRAEGAG AEVVNGLFLR YEAPKEPNGS
YVVHYNHYDS SNGKAGGEKR TFEVDAIVGA DGANSRVAKD MGAGDYEYAI AFQERVKIPD DKMKYEEERA
EMYVGGDDVSP DFYGWVFPKC DHVAVGTGTV THKPDIKKFQ AATRLRAKDR IEGGKIIRVE AHPIPEHPRP
KRVAGRVTLV GDAAGYVTKC SGEGYFAAK SGRMCAEAIV AGSANGTRMV EESDLRRYLA EFDRLYWPTY
KVLVDVLQKVF YRSNAAREAF VEMCADDYVQ RMTFDSYLYK RVVPGNPLDD IKLAVNTIGS LVRATALRRE
MEKVTL

Sequence Positions

38-463, Full length protein

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

50,587 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

NCBI Accession

XP_015627112.1

NCBI GI

1002245850

NCBI GenBank Nucleotide

XM_015771626.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Geranylgeranyl diphosphate reductase, chloroplastic (CHLP), Recombinant Protein

Cat *RP11315*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1*

NCBI GeneID
4330711 *mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

NCBI Official Full Name

geranylgeranyl diphosphate reductase, chloroplastic

NCBI Official Symbol

LOC4330711

NCBI Official Synonym Symbols

CHLP; LYL1; OsJ_08361; OJ1118_G04.11; OJ1734_E02.38

NCBI Protein Information

geranylgeranyl diphosphate reductase, chloroplastic

UniProt Gene Name

CHLP

UniProt Protein Name

Geranylgeranyl diphosphate reductase, chloroplastic

UniProt Synonym Protein Names

Geranylgeranyl reductase

UniProt Primary Accession

Q6Z2T6

UniProt Secondary Accession

Q0DXL8

UniProt Related Accession

Q6Z2T6

UniProt Comments

Catalyzes the reduction of geranylgeranyl diphosphate to phytyl diphosphate, providing phytol for both tocopherol and chlorophyll synthesis.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY