Light-Independent Protochlorophyllide Reductase Iron-Sulfur ATP-Binding Protein (chlL) Cyanophora Paradoxa Recombinant Protein

PRODUCT OVERVIEW

Product Name	Light-independent protochlorophyllide reductase iron-sulfur ATP-binding protein (chlL), Recombinant Protein
Full Product Name	Recombinant Cyanophora paradoxa Light-independent protochlorophyllide reductase iron-sulfur ATP-binding protein (chlL)
Product Gene Name	chlL recombinant protein
Sequence	MKLAVYGKGG IGKSTTSCNI SVALAKRGKK VLQIGCDPKH DSTFTLTGHL IPTIIDTLQE KDFHYEDIWP EDVIYKGYAG VDCVEAGGPP AGAGCGGYVV GETVKLLKEL NAFDEYDIIL FDVLGDVVCG GFASPLNYAD YCLIVTDNGF DALFAANRIA ASVREKARTH QLRLAGLIGN RTTKSDLIEK YTENVPIPIL QLLPLIEDIR ISRVKGKTLF EMSESNPELS PICDYYLNIA DQILAKPEGI IPNEVLDRDL FTLLSDFYLN MDSSESSNLT LV
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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	30,847 Da
Sequence Positions	1-282, Full length protein
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.
3D Structure	ModBase 3D Structure for P48110
Species	Cyanophora paradoxa
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for chlL recombinant protein	MBS1241389 is a recombinant protein targeting chlL. Also known as Recombinant Cyanophora paradoxa Light-independent protochlorophyllide reductase iron-sulfur ATP-binding protein (chlL). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of chlL 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 chlL. It may not necessarily be applicable to this product.

NCBI GI #	11467428
NCBI GeneID	801629
NCBI Accession #	NP_043285.1
UniProt Primary Accession #	P48110

UniProt Related Accession #	P48110
GenBank Nucleotide #	NC_001675.1
NCBI Official Full Name	photochlorophyllide reductase subunit L (cyanelle)
NCBI Official Symbol	chlL
UniProt Protein Name	Light-independent protochlorophyllide reductase iron-sulfur ATP-binding protein
UniProt Gene Name	chlL
UniProt Synonym Gene Names	DPOR subunit L; LI-POR subunit L
NCBI Protein Information	light-independent protochlorophyllide reductase iron-sulfer ATP-binding protein
UniProt Comments for chlL	Component of the dark-operative protochlorophyllide reductase (DPOR) that uses Mg-ATP and reduced ferredoxin to reduce ring D of protochlorophyllide (Pchlide) to form chlorophyllide a (Chlide). This reaction is light-independent. The L component serves as a unique electron donor to the NB-component of the complex, and binds Mg-ATP.
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