Light-Independent Protochlorophyllide Reductase Subunit B (chlB) Mesostigma Viride Recombinant Protein

PRODUCT OVERVIEW

Product Name	Light-independent protochlorophyllide reductase subunit B (chlB), Recombinant Protein
Full Product Name	Recombinant Mesostigma viride Light-independent protochlorophyllide reductase subunit B (chlB), partial
Product Gene Name	chlB recombinant protein
Product Synonym Gene Name	chlB
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	57,570 Da
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 Q9MUR9
Species	Mesostigma viride
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for chlB recombinant protein	MBS1470191 is a recombinant protein targeting chlB. Also known as Recombinant Mesostigma viride Light-independent protochlorophyllide reductase subunit B (chlB), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of chlB 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 chlB. It may not necessarily be applicable to this product.

NCBI GI #	11466388
NCBI GeneID	800943
NCBI Accession #	NP_038391.1
UniProt Primary Accession #	Q9MUR9
GenBank Nucleotide #	NC_002186.1
NCBI Official Full Name	photochlorophyllide reductase subunit B (chloroplast)
UniProt Protein Name	Light-independent protochlorophyllide reductase subunit B
Protein Family	Light-independent protochlorophyllide reductase

UniProt Gene Name	chlB
UniProt Synonym Gene Names	DPOR subunit B; LI-POR subunit B
UniProt Comments for chlB	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 NB-protein (ChlN-ChlB) is the catalytic component of the complex.
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