Light-Independent Protochlorophyllide Reductase Subunit N (chlN) Anthoceros Formosae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Light-independent protochlorophyllide reductase subunit N (chlN), Recombinant Protein
Full Product Name	Recombinant Anthoceros formosae Light-independent protochlorophyllide reductase subunit N (chlN)
Product Gene Name	chlN recombinant protein
Product Synonym Gene Name	chlN
Sequence	MSIQISETLT FECETGNYHT FCPISCVAWL YQKIEDSFFL VIGTKTCGYF LQNALGVMIF AEPRYAMAEL EEGDISAQLN DYEELKRLCF QIKKDRNPSV IIWIGTCTTE IIKMDLEGMA PKLEVELGVP IVVARANGLD YAFTQGEDTV LAAMAHRCPE RDLLIDENKV IQNQTIQNIF SLFSQKKKEE TLKYLELKNH PPLVLFGSLP STVASQLSLE LKRQSIQVSG WLPTQRYTDL PSLGDGVYVC GVNPFLSRTA TTLIRRRKCK LIGAPFPIGP DGTRAWIEKI SSVFGIKTKG LEEREQQVWQ SLKNYLNLVR GKSVFFMGDN LLEISLARFL IRCGMIVYEI GIPYMDKRYQ AAELALLRNT CREMCTPMPR IVEKPDNYNQ IQRMRELQPD LAITGMAHAN PLEARGINTK WSVEFTFAQI HGFTNAKDVL ELVTRPLRRN NSLEDLGWTN LIKKDNKIKV I
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	53,611 Da
Sequence Positions	1-471, 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 Q85A72
Species	Anthoceros formosae (Hornwort)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for chlN recombinant protein	MBS1331996 is a recombinant protein targeting chlN. Also known as Recombinant Anthoceros formosae Light-independent protochlorophyllide reductase subunit N (chlN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of chlN 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 chlN. It may not necessarily be applicable to this product.

NCBI GI #	28202233
NCBI GeneID	2553489

NCBI Accession #	NP_777473.1
UniProt Primary Accession #	Q85A72
UniProt Related Accession #	Q85A72
GenBank Nucleotide #	NC_004543.1
NCBI Official Full Name	photochlorophyllide reductase subunit N (chloroplast)
NCBI Official Symbol	chlN
UniProt Protein Name	Light-independent protochlorophyllide reductase subunit N
Protein Family	Nicotianamine synthase
UniProt Gene Name	chlN
UniProt Synonym Gene Names	DPOR subunit N; LI-POR subunit N
NCBI Protein Information	light-independent protochlorophyllide reductase subunit N
UniProt Comments for chlN	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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