Light-Independent Protochlorophyllide Reductase Subunit N (bchN) Rhodospirillum Rubrum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Light-independent protochlorophyllide reductase subunit N (bchN), Recombinant Protein
Full Product Name	Recombinant Rhodospirillum rubrum Light-independent protochlorophyllide reductase subunit N (bchN)
Product Gene Name	bchN recombinant protein
Product Synonym Gene Name	bchN
Sequence	MTCRPALSDS HPPEPGTPSS PSFGVCGDRP LLRERGQHEV FCGLAGIIWL HRKIQDAFFL IIGSRTCAHL MQSAAGVMIF AEPRFATAVL EEQDLAGLAD AQDEIDRVVA RLLERRPDIR LLFLVGSCPS EVIKIDLQRA ALRLSKVHGA RTRVVSYSGS GLETTFTQGE DACLAALVPD LPSAAADEAP DLLVVGTLPD VVEDQFGRLF AEMGIARTAF LPPRRSTALP AIGPKTRFLL AQPFLGDTAR CLEARGARRL AAPFPFGVEG TTGWLAAAAQ AFGVDDLTFR RVTAPGRERA ARALERQRAT LEGKRVFFFP ESQLEIPLAR FLVRELGMEA IEIGTPYLHR AHLAEELALL PATALLSEGQ DVDRQLDRCR AARPDLVVCG LGLANPLEAE GITTKWSIEL VFSPIHGYEQ AGDLAELFAR PLLRRALLKV
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	47,890 Da
Sequence Positions	1-440, 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 Q2RWR8
Species	Rhodospirillum rubrum (strain 11170 / NCIB 8255)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for bchN recombinant protein	MBS1380397 is a recombinant protein targeting bchN. Also known as Recombinant Rhodospirillum rubrum Light-independent protochlorophyllide reductase subunit N (bchN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of bchN 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 bchN. It may not necessarily be applicable to this product.

NCBI GI #	499707647
NCBI Accession #	WP_011388381.1

UniProt Primary Accession #	Q2RWR8
GenBank Nucleotide #	WP_011388381.1
NCBI Official Full Name	ferredoxin:protochlorophyllide reductase (ATP-dependent) subunit N
UniProt Protein Name	Light-independent protochlorophyllide reductase subunit N
Protein Family	Light-independent protochlorophyllide reductase
UniProt Gene Name	bchN
UniProt Synonym Gene Names	DPOR subunit N; LI-POR subunit N
UniProt Comments for bchN	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 (BchN-BchB) is the catalytic component of the complex.
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