Ribulose Bisphosphate Carboxylase Large Chain (cbbL) Nitrosococcus Oceani Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ribulose bisphosphate carboxylase large chain (cbbL), Recombinant Protein
Full Product Name	Recombinant Nitrosococcus oceani Ribulose bisphosphate carboxylase large chain (cbbL)
Product Gene Name	cbbL recombinant protein
Product Synonym Gene Name	cbbL
Sequence	MGKSETIAEG KDRYQAGVIP YKKMGYWEPD YQPKDTDIIA MFRITPQPGV DPEEAAAAVA GESSTATWTV VWTDRLTDCE LYRAKAYRAD LVPNTGEGTK NEAQYFAYIA YDLDLFEPGS IANLTASIIG NVFGFKAVKA LRLEDMRIPV AYLKTFQGPA TGVVVERERL DKFGRPLLGA TTKPKLGLSG RNYGRVVYEA LKGGLDFVKD DENINSQPFM HWRDRFLYCM EAVNKASAAT GEVKGHYLNV TAATMEDMYE RAEFAKSLGS VIIMIDLVVG YTAIQSMAKW ARKNDMILHL HRAGNSTYSR QKNHGMNFRV ICKWMRMAGV DHIHAGTVVG KLEGDPLMIK GFYDTLLDSH TPTSLEHGLF FDQDWASLNK VMPVASGGIH AGQMHQLIQY LGEDVILQFG GGTIGHPQGI QAGAVANRVA LEAMILARNE GRDYVKEGPQ ILQDAAKWCS PLKAALDTWK DVTFNYESTD TADFVPTATA SV
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	54,381 Da
Sequence Positions	1-492, 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 Q3JE87
Species	Nitrosococcus oceani (strain 19707 / NCIMB 11848)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cbbL recombinant protein	MBS1325184 is a recombinant protein targeting cbbL. Also known as Recombinant Nitrosococcus oceani Ribulose bisphosphate carboxylase large chain (cbbL). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cbbL 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 cbbL. It may not necessarily be applicable to this product.

NCBI GI #	499649572
NCBI Accession #	WP_011330306.1
UniProt Primary Accession #	Q3JE87

GenBank Nucleotide #	WP_011330306.1
NCBI Official Full Name	ribulose bisphosphate carboxylase large chain
UniProt Protein Name	Ribulose bisphosphate carboxylase large chain
UniProt Gene Name	cbbL
UniProt Synonym Gene Names	RuBisCO large subunit
UniProt Comments for cbbL	RuBisCO catalyzes two reactions: the carboxylation of D-ribulose 1,5-bisphosphate, the primary event in carbon dioxide fixation, as well as the oxidative fragmentation of the pentose substrate. Both reactions occur simultaneously and in competition at the same active site.
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