Ribulose Bisphosphate Carboxylase Large Chain (rbcL) Cryptomeria Japonica Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ribulose bisphosphate carboxylase large chain (rbcL), Recombinant Protein
Full Product Name	Recombinant Cryptomeria japonica Ribulose bisphosphate carboxylase large chain (rbcL)
Product Gene Name	rbcL recombinant protein
Sequence	PKTETKASVG FKAGVKDYRL TYYTPEYQTK DTDILAAFRV TPQPGVPPEE AGAAVAAESS TGTWTTVWTD GLTSLDRYKG RCYDIEPVPG EESQFIAYVA YPLDLFEEGS VTNLFTSIVG NVFGFKALRA LRLEDLRIPP AYSKTFQGPP HGIQVERDKL NKYGRPLLGC TIKPKLGLSA KNYGRAVYEC LRGGLDFTKD DENVNSQPFM RWRDRFCFCA EALYKAQAET GEIKGHYLNA TAGTCEEMMK RAVFARELGV PIVMHDYLTG GFTANTSLAH YCRDNGLLLH IHRAMHAVID RQRNHGMHFR VLAKALRMSG GDHIHAGTVV GKLEGEREVT LGFVDLLRDD FIEKDRSRGI YFTQDWVSMP GVLPVASGGI HVWHMPALTE IFGDDSVLQF GGGTLGHPWG NAPGAVANRV ALEACVQARN EGRDLAREGN QVIREATKWS PELAAACEVW KEIKFEFDTI DRL
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	52,764 Da
Sequence Positions	3-475, 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 P48696
Species	Cryptomeria japonica (Japanese cedar) (Cupressus japonica)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rbcL recombinant protein	MBS1230247 is a recombinant protein targeting rbcL. Also known as Recombinant Cryptomeria japonica Ribulose bisphosphate carboxylase large chain (rbcL). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rbcL 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 rbcL. It may not necessarily be applicable to this product.

NCBI GI #	172072903
NCBI GeneID	6166559
NCBI Accession #	YP_001806664.1
UniProt Primary Accession #	P48696

UniProt Secondary Accession #	B1VKF1
UniProt Related Accession #	P48696
GenBank Nucleotide #	NC_010548.1
NCBI Official Full Name	ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (chloroplast)
NCBI Official Symbol	rbcL
UniProt Protein Name	Ribulose bisphosphate carboxylase large chain
Protein Family	Ribulose 1,5-bisphosphate carboxylase
UniProt Gene Name	rbcL
UniProt Synonym Gene Names	RuBisCO large subunit
NCBI Protein Information	ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit
UniProt Comments for rbcL	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 in the photorespiration process. Both reactions occur simultaneously and in competition at the same active site.
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