Ribulose Bisphosphate Carboxylase Large Chain (rbcL) Ephedra Tweediana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ribulose bisphosphate carboxylase large chain (rbcL), Recombinant Protein
Full Product Name	Recombinant Ephedra tweediana Ribulose bisphosphate carboxylase large chain (rbcL)
Product Gene Name	rbcL recombinant protein
Product Synonym Gene Name	rbcL
Sequence	DGFKAGVKDY RLTYYTPEYQ TKDTDILAAF RVTPQPGVPP EEAGWAVAAE SSTGTWTTVW TDGLTSLDRY KGRCCDIEPV PGEDNQYFAY VAYPLDLFEE GSVTNMFTSI VGNVFGFKAL RALRLEDLRI PTAYIQTFQG PPHGIQVERD KLNKYGRPLL GCTIKPKLGL SAKNYGRAVY ECLRGGLDFT KDDENVNSRA FMRWRDRFVF CAEAIYKAQA ETGEIKGHYL NATSGTCEEM IKRAVFAREL GVPIVMHDYL TGGFTANTTL AHYCRDNGLL LHIHRAMHAV IDRQKNHGMH FRVLAKALRM SGGDHIHAGT VVGKLEGERE ITLGFVDLLR DDFIEKDRSR GIYFTQDWVS MPGVLPVASG GIHVWHMPAL TEIFGDDAVL QFGGGTLGHP WGNAPGAVAN RVALEACVQA RNEGRDLARE GNEVIREACK WSPELAAACE VWKEIKFEFA TVDTL
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	51,755 Da
Sequence Positions	1-465, 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 Q32223
Species	Ephedra tweediana (Vining horsetail)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rbcL recombinant protein	MBS1422082 is a recombinant protein targeting rbcL. Also known as Recombinant Ephedra tweediana 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 #	2500671
NCBI Accession #	Q32223.1
UniProt Primary Accession #	Q32223

NCBI Official Full Name	Ribulose bisphosphate carboxylase large chain
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
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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