Ribulose Bisphosphate Carboxylase Small Chain (cbbS) Anabaena Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ribulose bisphosphate carboxylase small chain (cbbS), Recombinant Protein
Full Product Name	Recombinant Anabaena sp. Ribulose bisphosphate carboxylase small chain (cbbS)
Product Gene Name	cbbS recombinant protein
Product Synonym Gene Name	cbbS
Product Synonym Names	Recombinant Ribulose bisphosphate carboxylase small chain (cbbS); Ribulose bisphosphate carboxylase small chain; RuBisCO small subunit EC= 4.1.1.39
Sequence	MQTLPKERRY
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	1,322 Da
Sequence Positions	1-10aa; 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 P83160
Species	Anabaena sp. (strain L31)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cbbS recombinant protein	MBS1241361 is a recombinant protein targeting cbbS. Also known as Recombinant Anabaena sp. Ribulose bisphosphate carboxylase small chain (cbbS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cbbS 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 cbbS. It may not necessarily be applicable to this product.

NCBI GI #	75360579
NCBI Accession #	P83160.1
UniProt Primary Accession #	P83160
NCBI Official Full Name	Ribulose bisphosphate carboxylase small chain
UniProt Protein Name	Ribulose bisphosphate carboxylase small chain

UniProt Gene Name	cbbS
UniProt Synonym Gene Names	RuBisCO small subunit
UniProt Entry Name	RBS_ANASL
UniProt Comments for cbbS	Function: 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 By similarity. UniProtKB P04716 Catalytic activity: 2 3-phospho-D-glycerate + 2 H+ = D-ribulose 1,5-bisphosphate + CO2 + H2O.3-phospho-D-glycerate + 2-phosphoglycolate = D-ribulose 1,5-bisphosphate + O2. Subunit structure: 8 large chains + 8 small chains. Sequence similarities: Belongs to the RuBisCO small chain family.
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