Rubisco Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	Rubisco (rbcL), Blocking Peptide
Full Product Name	Rubisco Blocking Peptide
Product Gene Name	rbcL blocking peptide
Product Synonym Names	Rubisco antibody; 3 phospho D glycerate carboxylase;rbcL;Ribulose bisphosphate carboxylase large chain;RuBisCO large subunit;
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	Rubisco peptide (MBS9620298) is used for blocking the activity of Rubisco antibody (MBS9611258)
Molecular Weight	52,740 Da
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for rbcL blocking peptide	Blocking/Control
Related Product Information for rbcL blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of rbcL blocking peptide 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.
Searchable Terms for rbcL purchase	MBS9620298 is a blocking peptide targeting rbcL. Also known as Rubisco Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for rbcL. It may not necessarily be applicable to this product.

NCBI GI #	11497536
NCBI GeneID	2715621
NCBI Accession #	NP_054944.1
UniProt Primary Accession #	P00875
UniProt Secondary Accession #	Q9M3L8
GenBank Nucleotide #	NP_054944.1
NCBI Official Full Name	ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (plastid)

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	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 (PubMed:2928307). Both reactions occur simultaneously and in competition at the same active site.
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