Complement C1q Subcomponent Subunit C (C1QC) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Complement C1q subcomponent subunit C (C1qc), Recombinant Protein
Full Product Name	Recombinant Rat Complement C1q subcomponent subunit C (C1qc)
Product Gene Name	C1qc recombinant protein
Sequence	NAGCYGIPGM PGLPGTPGKD GHDGLQGPKG EPGIPAIPGT QGPKGQKGEP GMPGHRGKNG PMGTSGSPGD PGPRGPPGEP GEEGRYKQKH QSVFTVTRQT AQYPAANGLV KFNSAITNPQ GDYNTNTGKF TCKVPGLYYF VHHTSQTANL CVQLLLNNAK VTSFCDHMSN SKQVSSGGVL LRLQRGDEVW LAVNDYNGMV GTEGSDSVFS GFLLFPD
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	25,686 Da
Sequence Positions	29-245, 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 P31722
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for C1qc recombinant protein	This gene encodes a major constituent of the human complement subcomponent C1q. C1q associates with C1r and C1s in order to yield the first component of the serum complement system. A deficiency in C1q has been associated with lupus erythematosus and glomerulonephritis. C1q is composed of 18 polypeptide chains: six A-chains, six B-chains, and six C-chains. Each chain contains a collagen-like region located near the N-terminus, and a C-terminal globular region. The A-, B-, and C-chains are arranged in the order A-C-B on chromosome 1. This gene encodes the C-chain polypeptide of human complement subcomponent C1q. Alternatively spliced transcript variants that encode the same protein have been found for this gene.
Other Notes	Small volumes of C1qc 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.
Searchable Terms for C1qc purchase	MBS953383 is a recombinant protein targeting C1qc. Also known as Recombinant Rat Complement C1q subcomponent subunit C (C1qc). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C1qc. It may not necessarily be applicable to this product.

NCBI GI #	56606098
NCBI GeneID	362634

NCBI Accession #	NP_001008524.1
UniProt Primary Accession #	P31722
UniProt Secondary Accession #	Q5RJZ8
UniProt Related Accession #	P31722
GenBank Nucleotide #	NM_001008524.1
NCBI Official Full Name	complement C1q subcomponent subunit C
NCBI Official Synonym Full Names	complement C1q C chain
NCBI Official Symbol	C1qc
NCBI Official Synonym Symbols	C1qg
UniProt Protein Name	Complement C1q subcomponent subunit C
Protein Family	Complement C1q subcomponent
UniProt Gene Name	C1qc
UniProt Synonym Gene Names	C1qg
NCBI Protein Information	complement C1q subcomponent subunit C
UniProt Comments for C1qc	C1q associates with the proenzymes C1r and C1s to yield C1, the first component of the serum complement system. The collagen-like regions of C1q interact with the Ca2+-dependent C1r2C1s2 proenzyme complex, and efficient activation of C1 takes place on interaction of the globular heads of C1q with the Fc regions of IgG or IgM antibody present in immune complexes.
Research Articles on C1qc	**1.** Data suggest that complement C1q expression may play a principal role in hepatic ischemia-reperfusion (I/R) injury, particularly at the early stage of perfusion.
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