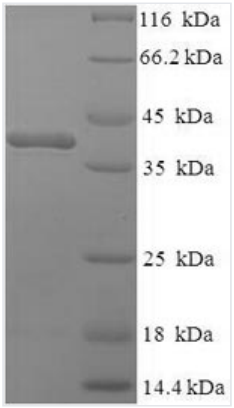
Complement C1q Subcomponent Subunit A (C1QA) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Complement C1q subcomponent subunit A (C1qa), Recombinant Protein
Full Product Name	Recombinant Mouse Complement C1q subcomponent subunit A (C1qa)
Product Gene Name	C1qa recombinant protein
Sequence	EDVCRAPNGK DGAPGNPGRP GRPGLKGERG EPGAAGIRTG IRGFKGDPGE SGPPGKPGNV GLPGPSGPLG DSGPQGLKGV KGNPGNIRDQ PRPAFSAIRQ NPMTLGNVVI FDKVLTNQES PYQNHTGRFI CAVPGFYYFN FQVISKWDLC LFIKSSSGGQ PRDSLSFSNT NNKGLFQVLA GGTVLQLRRG DEVWIEKDPA KGRIYQGTEA DSIFSGFLIF PSA
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, conserve at -20 degree C or -80 degree C.
Molecular Weight	25.6 kDa
Sequence Positions	23-245aa; Full Length of Mature 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 P98086
Production Note	**Special Offer:** The Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. Yeasthost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our **technical support team** **or email to** **support@mybiosource.com** for more details.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for C1qa recombinant protein	C1q associates with the proenzymes C1r and C1s to yield C1, the first component of the serum complent 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.
Product References and Citations for C1qa recombinant protein	Gene expression of the A- and B-chain of mouse C1q in different tissues and the characterization of the recombinant A-chain.Petry F., Reid K.B.M., Loos M.J. Immunol. 147:3988-3993(1991) The mouse C1q genes are clustered on chromosome 4 and show conservation of gene organization.Petry F., McClive P.J., Botto M., Morley B.J., Morahan G., Loos M.Immunogenetics 43:370-376(1996) Lineage-specific biology revealed by a finished genome assembly of the mouse.Church D.M., Goodstadt L., Hillier L.W., Zody M.C., Goldstein S., She X., Bult C.J., Agarwala R., Cherry J.L., DiCuccio M., Hlavina W., Kapustin Y., Meric P., Maglott D., Birtle Z., Marques A.C., Graves T., Zhou S., Teague B., Potamousis K., Churas C., Place M., Herschleb J., Runnheim R., Forrest D., Amos-Landgraf J., Schwartz D.C., Cheng Z., Lindblad-Toh K., Eichler E.E., Ponting C.P.PLoS Biol. 7:E1000112-E1000112(2009) Mural R.J., Adams M.D., Myers E.W., Smith H.O., Venter J.C. Proteome-wide characterization of N-glycosylation events by diagonal chromatography.Ghesquiere B., Van Damme J., Martens L., Vandekerckhove J., Gevaert K.J. Proteome Res. 5:2438-2447(2006)

Other Notes	Small volumes of C1qa 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 C1qa purchase	MBS966734 is a recombinant protein targeting C1qa. Also known as Recombinant Mouse Complement C1q subcomponent subunit A (C1qa). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-PAGE of C1qa recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C1qa. It may not necessarily be applicable to this product.

NCBI GI #	124286805
NCBI GeneID	12259
NCBI Accession #	NP_031598.2
UniProt Primary Accession #	P98086
UniProt Secondary Accession #	Q9DCM6
UniProt Related Accession #	P98086
GenBank Nucleotide #	NM_007572.2
NCBI Official Full Name	complement C1q subcomponent subunit A
NCBI Official Synonym Full Names	complement component 1, q subcomponent, alpha polypeptide
NCBI Official Symbol	C1qa
NCBI Official Synonym Symbols	C1q; AI255395
UniProt Protein Name	Complement C1q subcomponent subunit A
Protein Family	Complement C1q subcomponent
UniProt Gene Name	C1qa
UniProt Entry Name	C1QA_MOUSE
NCBI Protein Information	complement C1q subcomponent subunit A

UniProt Comments for C1qa	C1QA: 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 Ca(2)-dependent C1r(2)C1s(2) 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. Protein type: Secreted; Secreted, signal peptide Cellular Component: collagen; extracellular region Molecular Function: protein binding Biological Process: complement activation, classical pathway; immune system process; innate immune response
Research Articles on C1qa	**1.** G allele in rs172378 risk factor for lupus nephritis in a homozygous status
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