Complement Component C8 Alpha Chain (C8A) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Complement component C8 alpha chain (C8a), Recombinant Protein
Full Product Name	Recombinant Mouse Complement component C8 alpha chain (C8a)
Product Gene Name	C8a recombinant protein
Product Synonym Gene Name	C8a
Sequence	AVTPQAVSCQ LSDWYKWTDC FPCQDKKYRY RSLLQPSKFG GTICSGDIWD EASCDSPTPC LRQAQCGQDF QCRETGRCLK RHLVCNGDND CLDGSDESDC EDVRVTEDDC HQYEPIPGSE RAALGYNILT QEEAQSVYDA KYYGGQCETV YNGDWRKLRY DPTCERLYYG EDEKYFRKPY NFLKYHFEAL ADTSISSEFY DDANDLFFHI KNGKSHSAGV TVGVAPVKSP VSIEVTGSGS KASSFLNKLN KYNEKRYGFM RVSTKIQTAQ FKMRRNNIVL DEGMLQSLME LPEQFNYGMY AKFINDYGTH YITSGTMGGI YEYVMVLDKE KMKTEGTTVD EVQKCIGGGI GIGIKDSTIE GVGISGEFCE NSGDGDRDIR KKITGVEDII SRVQGGSSVW GSVLTHNSSA ITYQSWGRSL KYNPVVIDFE MQPIYQLLRH TNLGPLETKR QNLRRALDQY LMEFNACRCG PCFNNGEPIL DGTNCRCQCS MGRQGLACER TVIEGLKDFK AAGHWSCWSS WSECRGGSQE RRRQCNNPPP KNGGTPCLGR NLQTQAC
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	66,080 Da
Sequence Positions	31-587, 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 Q8K182
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for C8a recombinant protein	C8 is a component of the complement system and contains three polypeptides, alpha, beta and gamma. This gene encodes the alpha subunit of C8. C8 participates in the formation of the membrane attack complex (MAC). The MAC assembles on bacterial membranes to form a pore, permitting disruption of bacterial membrane organization. Mutations in this gene cause complement C8 alpha-gamma deficiency.
Other Notes	Small volumes of C8a 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 C8a purchase	MBS1469880 is a recombinant protein targeting C8a. Also known as Recombinant Mouse Complement component C8 alpha chain (C8a). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C8a. It may not necessarily be applicable to this product.

NCBI GI #	22122667
NCBI GeneID	230558
NCBI Accession #	NP_666260.1
UniProt Primary Accession #	Q8K182
UniProt Secondary Accession #	Q8CHJ9; Q8CHK1
UniProt Related Accession #	Q8K182
GenBank Nucleotide #	NM_146148.2
NCBI Official Full Name	complement component C8 alpha chain isoform 1 preproprotein
NCBI Official Synonym Full Names	complement component 8, alpha polypeptide
NCBI Official Symbol	C8a
UniProt Protein Name	Complement component C8 alpha chain
UniProt Synonym Protein Names	Complement component 8 subunit alpha
Protein Family	Complement component
UniProt Gene Name	C8a
NCBI Protein Information	complement component C8 alpha chain
NCBI Summary for C8a	This gene encodes the alpha subunit of complement component C8 that participates in the assembly of the complement membrane attack complex. The encoded preproprotein undergoes proteolytic processing to generate the alpha subunit, which associates with the beta and gamma subunits to form a trimeric complement component, C8. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. This gene is located adjacent to the gene encoding the beta subunit. [provided by RefSeq, Oct 2015]
UniProt Comments for C8a	Constituent of the membrane attack complex (MAC) that plays a key role in the innate and adaptive immune response by forming pores in the plasma membrane of target cells. C8A inserts into the target membrane, but does not form pores by itself ().
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