

Complement Component C5a Active Protein | mC5a active protein

Recombinant Mouse Complement Component C5a

CATALOG #
AAA39018

PRODUCT SYNONYMS

Complement Component C5a; Recombinant Mouse Complement Component C5a; C5a Mouse; Complement Component C5a Mouse Recombinant; Complement C5; Hemolytic complement; C5; Hc; He; C5a; mC5a active protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Mouse C5a was lyophilized from a concentrated (1mg/ml) solution in 20mM PB, pH 7.5 and 350mM NaCl. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dwasfoundt obeAsn-Leu -His-Leu-L eu
Sequence Length	1680
Source	Escherichia Coli.
Solubility	It is recommended to reconstitute the lyophilized Mouse C5a in sterile 18M Omega-cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 of Recombinant Mouse C5a as determined by its ability to induce N-acetyl-b-D-glucosaminidase release from differentiated U937 human histiocytic lymphoma cells was 5-20ng/ml.
Preparation and Storage	Lyophilized Mouse C5a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse C5a should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mC5a active protein	Description: C5a Mouse Recombinant produced in E Coli is a single, non-glycosylated, Polypeptide chain containing 77 amino acids and having a molecular mass of 9kDa. The Mouse C5a is purified by proprietary chromatographic techniques. Introduction: Mouse Complement 5a (C5a) is a glycoprotein which is a member of a family of structurally and functionally related proteins known as anaphylatoxins. C5a is a 77 a.a. peptide created by the C5a convertase proteolytic cleavage of C5 ? chain in the classical and alternative complement pathway (C4b2a3b, C3bBb3b). The mouse C5a has four helices and three intrachain disulfide bonds which form a triple loop structure. C5a functions through G-protein coupled receptor (GPCR) (C5aR/CD88). C5a is a effective chemoattractant and anaphylatoxin which functions on all classes of leukocytes and on many other cell types including endothelial, smooth muscle, kidney, liver, and neural cells. Mouse C5a also mediates IL-8 release from bronchial epithelial cells. Furthermore, it triggers an oxidative surge in macrophages and neutrophils, causing the release of histamine in basophils and mast cells. The C5a anaphylatoxin activity on hepatocytes results indirectly from interaction with nonparenchymal cell via prostanoid secretion.
Product Categories/Family for mC5a active protein	Recombinant & Natural Proteins; Recombinant Proteins; Complement Component

NCBI AND UNIPROT INFORMATION

NCBI GI #	6754164
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NCBI GeneID	15139
NCBI Accession #	NP_034536.1
NCBI GenBank Nucleotide #	NM_010406.2
UniProt Accession #	P06684 ; A2AS36
NCBI Official Full Name	complement C5 preproprotein
NCBI Official Synonym Full Names	hemolytic complement
NCBI Official Symbol	Hc
NCBI Official Synonym Symbols	C5; He; C5a
NCBI Protein Information	complement C5
UniProt Protein Name	Complement C5
UniProt Gene Name	C5
UniProt Synonym Gene Names	Hc
UniProt Entry Name	CO5_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mc5a-active-protein/complement-component-c5a/39018>