9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

C5a Mouse

Complement Component C5a Mouse Recombinant
RCP0299

Product Overview

Name	C5a Mouse
Description	
Complement Component C5a Mouse Recombinant	
Accession (Primary)	P06684
Synonyms	
Complement C5, Hemolytic complement, C5, Hc, He, C5a.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Mouse C5a was lyophilized from a concentrated (1mg/ml) solution in 20mM PB, pH 7.5 and 350mM NaCl.	
Stability	
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.	
Purity	
Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	

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Amino acid sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Asn-Leu-His-Leu-Leu.

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.

Solubility

It is recommended to reconstitute the lyophilized Mouse C5a in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

C5a Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P06684)