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

C5a Human

Complement Component C5a Human Recombinant
RCP0298

Product Overview

Name	C5a Human
Description	
Complement Component C5a Human Recombinant	
Accession (Primary)	P01031
Synonyms	
Complement Component 5, C3 and PZP-Like Alpha-2-Macroglobulin Domain-Containing Protein 4, C5a Anaphylatoxin, Prepro-C5, CPAMD4, Anaphylatoxin C5a Analog, ECLZB, C5A, C5D, C5b, C5.	
Introduction	
Complement Component C5a (C5a) is involved in the complement system and it is encoded by the C5 gene in human. Complement C5 is cleaved into C5a and C5b. C5a has an imperative role in chemotaxis and C5b forms the 1st part of the complement membrane attack complex. Complement C5 is the 5th component of complement, which plays a central role in inflammatory and cell killing processes. C5a protein is composed of alpha and beta polypeptide chains, which are linked by a disulfide bridge. An activation peptide, C5a, which is an anaphylatoxin, which has potent spasmogenic and chemotactic activity, is derivative from the alpha polypeptide via cleavage with a convertase. The C5b macromolecular cleavage product forms a complex with the C6 complement component, and this complex is the basis for creation of the membrane attack complex, which includes supplementary complement components.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Human C5a was lyophilized from a concentrated (1mg/ml) solution in PBS, pH 7.4.	
Stability	
Lyophilized Human C5a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Human 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 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	

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

Amino acid sequence

TLQKKIEEIA AKYKHSVVKK CCYDGACVNN DETCEQRAAR ISLGPRCIKA FTECCVVASQ LRANISHKDM QLGR.

Biological Activity

The biological activity determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 ng/ml.

Solubility

It is recommended to reconstitute the lyophilized C5a Human in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

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

Target Information: (P01031)