

Datasheet for ABIN7319677  
**C5A Protein**[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	C5A (C5a)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

## Product Details

Purpose:	Recombinant Human Complement C5a Protein
Sequence:	Thr678-Arg751
Characteristics:	Recombinant Human C5a is produced by our E.coli expression system and the target gene encoding Thr678-Arg751 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

## Target Details

Target:	C5A (C5a)
Alternative Name:	Complement C5a ( <a href="#">C5a Products</a> )
Background:	Background: Human Complement 5a (C5a) is an enzymatically generated glycoprotein that belongs to a family of structurally and functionally related proteins known as anaphylatoxins. C5a is a 74 amino acid (aa) peptide that is created by the activity of C5a convertase on the C5 α-chain. Human C5a has four α-helices plus three intrachain disulfide bonds that create a triple

## Target Details

loop structure. Human C5a is 60 % and 54 % aa identical to mouse and rat C5a, respectively. C5a binds to a signaling G-protein coupled receptor (C5aR/CD88) and a nonsignaling GPCR termed C5L2. Activation of Cd88 results in neutrophil chemotaxis and endothelial cell activation. It also triggers an oxidative burst in macrophages and neutrophils, and induces release of histamine in basophils and mast cells.

Synonym: Complement C5, C5a anaphylatoxin, C5a,CPAMD4,ECLZB,C5Da

Molecular Weight: 8.4 kDa

UniProt: [P01031](#)

Pathways: [Complement System](#), [Carbohydrate Homeostasis](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.