

Datasheet for ABIN2180666
C5A Protein (AA 679-751)

2 Images

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Overview

Quantity:	50 µg
Target:	C5A (C5a)
Protein Characteristics:	AA 679-751
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence:	AA 679-751
Characteristics:	This protein carries no "tag". The protein has a calculated MW of 8.3 kDa. The protein migrates as 8.3 kDa under reducing (R) condition (SDS-PAGE).
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	C5A (C5a)
Alternative Name:	Complement Component C5a (C5a Products)
Background:	Human Complement Component C5a (C5a) is also known as C5a, and is a protein fragment released from complement component C5, is a potent chemotactic factor for human peripheral blood neutrophils and monocytes, and is believed to play an important role in a number of

Target Details

inflammatory conditions. There are several functions in the below: C5a is an anaphylatoxin, causing the release of histamine from mast cells, C5a is effective leukocyte chemoattractants, causing the accumulation of white blood cells, especially neutrophil granulocytes, at sites of complement activation, C5a activates white blood cells by increasing avidity for white blood cell integrins and upregulating the Lipoxygenase pathway for arachidonic acid metabolism, C5a is a powerful inflammatory mediator, and seems to be a key factor in the development of pathology of many inflammatory diseases involving the complement system, C5a modulates balance between activating versus inhibitory IgG Fc receptors on leukocytes, thereby enhancing autoimmune response.

Molecular Weight:	8.3 kDa
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UniProt:	P01031
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Pathways:	Complement System , Carbohydrate Homeostasis
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Application Details

Restrictions:	For Research Use only
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Handling

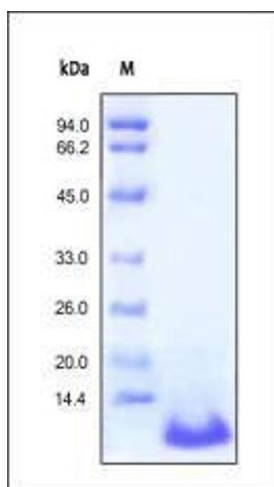
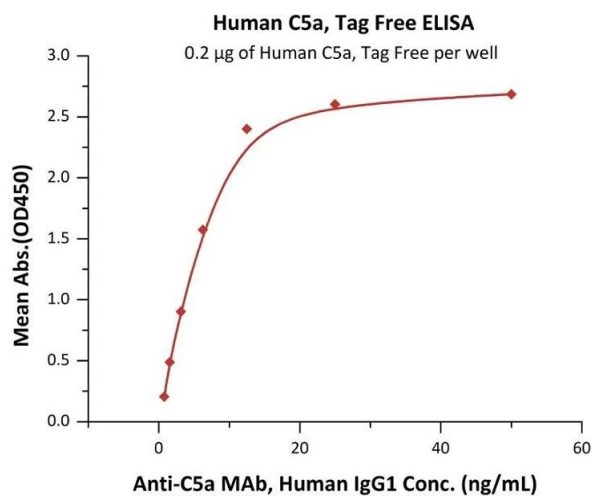
Format:	Lyophilized
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Buffer:	PBS, pH 7.4
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Handling Advice:	Please avoid repeated freeze-thaw cycles.
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Storage:	-20 °C
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Storage Comment:	No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).
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ELISA

Image 1. Immobilized Human C5a, Tag Free (ABIN2180666, ABIN2180665) at 2 µg/mL (100 µL/well) can bind Anti-C5a MAb, Human IgG1 with a linear range of 0.8-13 ng/mL (QC tested).

SDS-PAGE

Image 2. Human C5a, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.