

Product datasheet

Recombinant human C5a protein ab167724

[4 Images](#)

Description

Product name	Recombinant human C5a protein	
Biological activity	ab167724 is active based on enzyme release assay of myeloperoxidase. The ED ₅₀ = 1.36 nM.	
Purity	> 95 % SDS-PAGE.	
Endotoxin level	< 1.000 Eu/μg	
Expression system	Escherichia coli	
Accession	P01031	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	LQKKIEEIAAKYKHSVVKCCYDGACVNNDETCEQRAARI SLGPRCIKAF TECCVVASQLRANISHKDMQLGR	
Predicted molecular weight	8 kDa	
Amino acids	679 to 751	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab167724** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Lyophilized

Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.40 Constituent: 99% PBS
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Normally trehalose and mannitol are added as protectants before lyophilization.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

Reconstitution

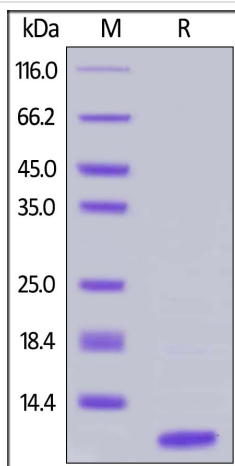
Reconstitute with sterile deionized water to a concentration of 400 µg/ml.

General Info

Relevance

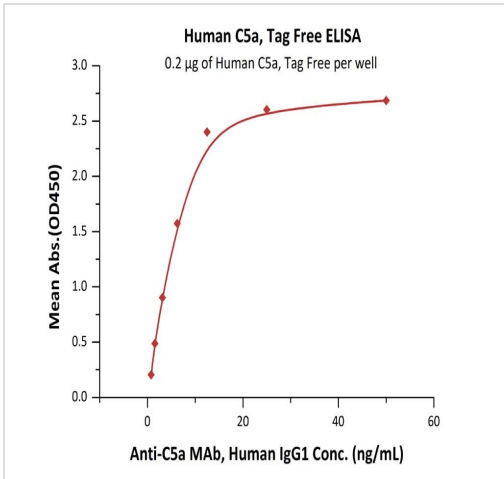
Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. Binding to the receptor C5AR1 induces a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation.

Images



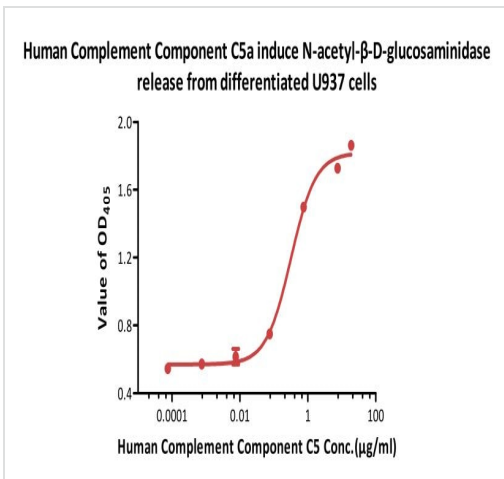
Human C5a, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SDS-PAGE - Recombinant human C5a protein
(ab167724)



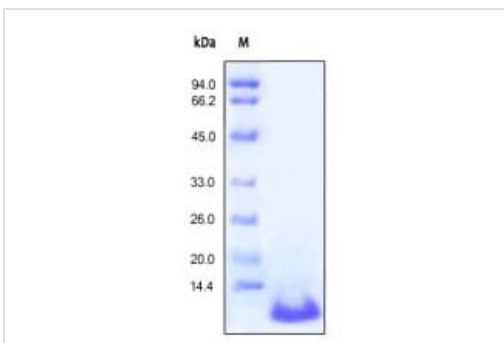
Immobilized Human C5a, Tag Free at 2 µg/mL (100 µL/well) can bind Anti-C5a Mab, Human IgG1 with a linear range of 0.8-13 ng/mL.

Functional Studies - Recombinant human C5a protein (ab167724)



Human C5a, Tag Free induce N-acetyl-β-D-glucosaminidase release from differentiated U937 cells. The ED50 for this effect is 0.215-0.323 µg/mL.

Functional Studies - Recombinant human C5a protein (ab167724)



SDS-PAGE of reduced ab167724 stained overnight with Coomassie Blue (6µg).

SDS-PAGE - Recombinant human C5a protein (ab167724)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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