

# Recombinant Cynomolgus C5 protein

**Cat. No.** C5-452C    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant Cynomolgus C5 (Met678-Arg751) protein carried no tag and was expressed in E.coli.

**Species**                      Cynomolgus

**Source**                        E.coli

**ProteinLength**              Met678-Arg751

**Description**

Complement Component C5a (C5a) is also known as C5, and is a protein fragment released from complement component C5. It is a potent chemotactic factor for human peripheral blood neutrophils and monocytes, and is believed to play an important role in a number of 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.

**Predicted N Terminal**      Met678

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<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
<b>Molecular Mass</b>	The protein has a calculated MW of 8.4 kDa. The protein migrates as 11 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<b>C5</b>
<b>Official Symbol</b>	<b>C5</b>
<b>Synonyms</b>	C5; complement component 5; complement C5; CPAMD4; anaphylatoxin C5a analog; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4; FLJ17816; FLJ17822; MGC142298
<b>Gene ID</b>	<b>102125658</b>

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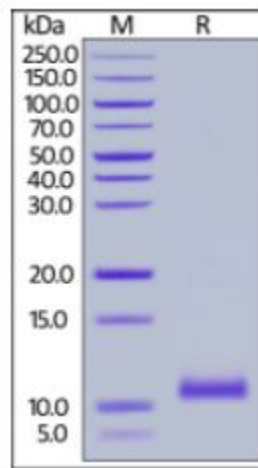
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mRNA Refseq [XM\\_005580915.2](#)

Protein Refseq [XP\\_005580972.1](#)

UniProt ID [A0A2K5U1T1](#)

**SDS-PAGE of C5-452C**



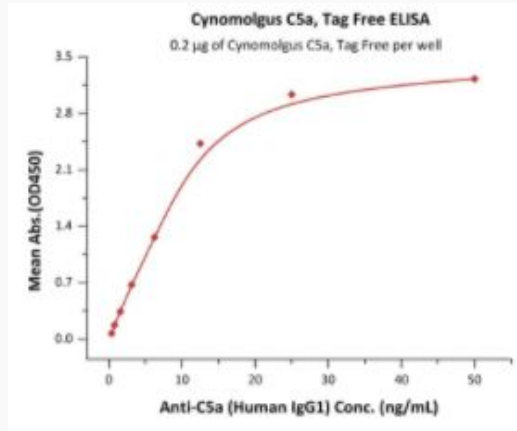
Cynomolgus C5a, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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**Bioactivity-ELISA of  
C5-452C**



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

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