Recombinant Mouse Hc protein, His-tagged

Cat. No. Hc-563M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Hc (Asn679-Arg755) protein was fused to His-tag at N-terminus and expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	Asn679-Arg755
Description	Complement Component C5a (C5a) is also known as C5,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 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	Asn679

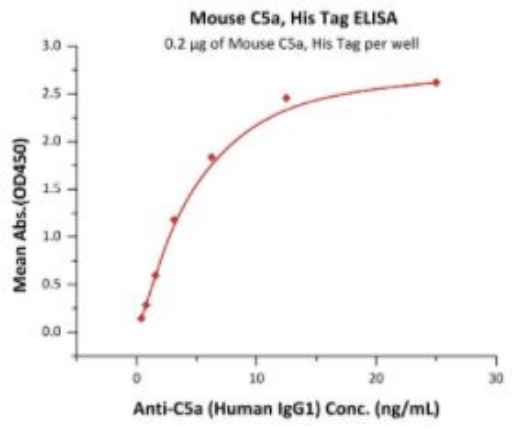
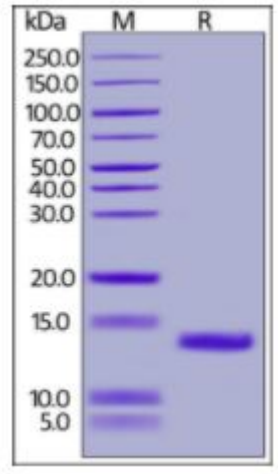
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Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 10.9 kDa. The protein migrates as 14 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	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℃ before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Hc
Official Symbol	Hc
Synonyms	HC; hemolytic complement; complement C5; C5; He; C5a
Gene ID	15139
mRNA Refseq	NM_010406

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Protein Refseq	NP_034536
UniProt ID	P06684
Bioactivity-ELISA of Hc-563M	 Immobilized Mouse C5a, His Tag at 2 μg/mL (100 μL/well) can bind Anti-C5a (Human IgG1) with a linear range of 0.4-6 ng/mL (QC tested).
SDS-PAGE of Hc-563M	 Mouse C5a, His Tag on SDS-PAGE under reducing (R) condition. The gel was

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	stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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