

## Recombinant Mouse Hemolytic Complement, His-tagged

Cat. No. Hc-4909M    Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant the 9 kDa mouse Hc protein expressed in E. coli contains a N-terminal His-Tag sequence.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Mouse Hc is a 77-amino acid peptide generated during complement activation from the $\alpha$ -chain of complement C5. Mouse Hc shares 60% and 82% amino acid sequence identity to human and rat Hc, respectively. Hc binds to a signaling G-protein coupled receptor (GPCR) (C5aR/CD88), inducing 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.
<b>Biological Activity</b>	ED <sub>50</sub> 1-3 nM as determined by enzyme release assay of myeloperoxidase.
<b>Molecular Weight</b>	9 kDa
<b>Form</b>	Lyophilized without additives.
<b>Appearance</b>	Lyophilized protein
<b>Endotoxin Level</b>	< 0.1 ng/ $\mu$ g
<b>Reconstitution</b>	Reconstitute to a concentration of 1.0 mg/ml in ice-cold water containing 2.5 mg/ml

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BSA. The solution should be aliquoted and immediately stored at -70°C.

**Purity** >95% by SDS-PAGE

**Storage** Store at -20°C or -70°C as supplied. Stable for at least 1 year. After reconstitution, store at -70°C.

**Pathways** Activation of C3 and C5; Complement Activation; Complement and Coagulation Cascades; Complement cascade; G alpha (i) signalling events; GPCR downstream signaling; GPCR ligand binding; Herpes simplex infection; Immune System; Innate Immunity Signaling; Peptide ligand-binding receptors; Pertussis; Prion diseases; Signaling by GPCR; Staphylococcus aureus infection

## GENE INFORMATION

**Gene Name** Hc hemolytic complement [ *Mus musculus* ]

**Official Symbol** Hc

**Synonyms** Hc; hemolytic complement; C5; He; C5a; complement C5; OTTMUSP00000013195

**Gene ID** 15139

**mRNA Refseq** NM\_010406

**Protein Refseq** NP\_034536

**UniProt ID** P06684

**Chromosome Location** 2 cen-C1; 2 23.5 cM

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**Function**

C5a anaphylatoxin chemotactic receptor binding; endopeptidase inhibitor activity

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