

Recombinant Mouse Hemolytic Complement, His-tagged

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

SPECIFICATION

Product Overview	Recombinant the 9 kDa mouse Hc protein expressed in E. coli contains a N-terminal His-Tag sequence.
Species	Mouse
Source	E.coli
Description	Mouse Hc is a 77-amino acid peptide generated during complement activation from the α -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.
Biological Activity	ED ₅₀ 1-3 nM as determined by enzyme release assay of myeloperoxidase.
Molecular Weight	9 kDa
Form	Lyophilized without additives.
Appearance	Lyophilized protein
Endotoxin Level	< 0.1 ng/ μ g
Reconstitution	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 [<i>Mus musculus</i>]
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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