

## Recombinant Mouse Hc Protein

Cat. No. Hc-071M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse hemolytic complement (Hc) without tag was expressed in E.coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	<p>This gene encodes a component of the complement system, a part of the innate immune system that plays an important role in inflammation, host homeostasis, and host defense against pathogens. The encoded preproprotein is proteolytically processed to generate multiple protein products, including the C5 alpha chain, C5 beta chain, C5a anaphylatoxin and C5b. The C5 protein is comprised of the alpha and beta chains, which are linked by a disulfide bridge. Cleavage of the alpha chain by a convertase enzyme results in the formation of the C5a anaphylatoxin, which possesses potent spasmogenic and chemotactic activity, and the C5b macromolecular cleavage product, a subunit of the membrane attack complex (MAC). Mice with a homozygous mutation in this gene exhibit impaired bone fracture healing and an enhanced inflammatory response in an allergic lung disease model.</p>
<b>Molecular Mass</b>	9 kDa
<b>AA Sequence</b>	MNLHLLRQKIEEQAAKYKHSVPPKCCYD GARVNFYETCEERVARVTIGPLCIRAFNE CCTIANKIRKESPHKPVQLGR
<b>Endotoxin</b>	Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)

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<b>Purity</b>	>95%, as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade.
<b>Storage Buffer</b>	Lyophilized from a 0.2 M filtered solution of 20mM PB, 350mM NaCl, pH 7.5
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	Hc hemolytic complement [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Hc
<b>Synonyms</b>	Hc; hemolytic complement; C5; He; C5a; Hfib2; complement C5; hepatic fibrogenesis 2
<b>Gene ID</b>	15139
<b>mRNA Refseq</b>	NM_010406
<b>Protein Refseq</b>	NP_034536
<b>UniProt ID</b>	A0A0J9YUU3

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