

## Product datasheet for **TP720588M**

### Hc (NM\_010406) Mouse Recombinant Protein

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Recombinant Proteins  |
| Description:                          | Purified recombinant protein of Mouse hemolytic complement (Hc)                                 |
| Species:                              | Mouse   |
| Expression Host:                      | E. coli   |
| Expression cDNA Clone or AA Sequence: | Asn679-Arg755   |
| Tag:                                  | tag free  |
| Predicted MW:                         | 9 kDa   |
| Concentration:                        | lot specific  |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining                                      |
| Buffer:                               | Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl             |
| Endotoxin:                            | Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)   |
| Storage:                              | Store at -80°C.   |
| Stability:                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions. |
| RefSeq:                               | <a href="#">NP_034536</a>   |
| Locus ID:                             | 15139   |
| UniProt ID:                           | <a href="#">P06684</a>  |
| RefSeq Size:                          | 5448  |
| Cytogenetics:                         | 2 23.22 cM  |
| RefSeq ORF:                           | 5040  |
| Synonyms:                             | C5; C5a; He   |



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**Summary:**

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. [provided by RefSeq, Nov 2015]