

## Active Recombinant Human C3 Protein

Cat. No. C3-01H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | C3a is an anaphylotoxin polypeptide comprising amino acids (aa) 672-748 of the Complement C3 precursor protein. Recombinant human Complement Component C3a protein Ser672-Arg748 was expressed in E.coil.   |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | 672-748 a.a.  |
| <b>Description</b>      | Complement component C3 plays a central role in the activation of complement system. Its activation is required for both classical and alternative complement activation pathways. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that form the mature protein, which is then further processed to generate numerous peptide products. The C3a peptide, also known as the C3a anaphylatoxin, modulates inflammation and possesses antimicrobial activity. Mutations in this gene are associated with atypical hemolytic uremic syndrome and age-related macular degeneration in human patients. |
| <b>Bio-activity</b>     | Measured by its ability to enhance IL6 secretion by human peripheral blood mononuclear cells (PBMC); The ED50 for this effect is 1.5-7.5 µg/mL.   |
| <b>Molecular Mass</b>   | 9.1 kDa   |
| <b>Endotoxin</b>        | <0.01 EU per 1 µg of the protein by the LAL method.   |

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|-----------------------|--|
| <b>Purity</b>         | >95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining.  |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freezethaw cycles. 12 months from date of receipt, 20 to 70 centigrade as supplied; 1 month, 2 to 8 centigrade under sterile conditions after reconstitution; 3 months, 20 to 70 centigrade under sterile conditions after reconstitution. |
| <b>Reconstitution</b> | Reconstitute at 250 µg/mL in sterile PBS.  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | <a href="#">C3</a>                             |
| <b>Official Symbol</b> | <a href="#">C3</a>                             |
| <b>Synonyms</b>        | AHUS5, ARMD9, ASP, C3a, C3b, CPAMD1, HEL-S-62p |
| <b>Gene ID</b>         | <a href="#">718</a>                            |
| <b>mRNA Refseq</b>     | <a href="#">NM_000064.4</a>                    |
| <b>Protein Refseq</b>  | <a href="#">NP_000055.2</a>                    |
| <b>MIM</b>             | <a href="#">120700</a>                         |
| <b>UniProt ID</b>      | <a href="#">P01024</a>                         |

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