

## Complement C5 Recombinant Protein | C5 recombinant protein

Recombinant Human Complement C5 (C5), partial

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA115007</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

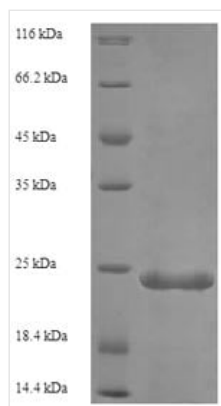
### PRODUCT SYNONYMS

Complement C5; Recombinant Human Complement C5 (C5); partial; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4; C5 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                       |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                              |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)       |
| Sequence Positions      | 678-751. Partial                                                                       |
| Sequence                | TLQKKIEEIA AKYKHSVVKK CCYDGACVNN DETCEQRAAR ISLGPRCIKA FTECCVVASQ LRANISHKDM QLGR      |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C. |

### IMAGES



SDS-PAGE

### ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for C5 recombinant protein | Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled. Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. Binding to the receptor C5AR1 induces a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. C5a is also a potent chemoattractant which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation. |
| Product Categories/Family for C5 recombinant protein   | <a href="#">Signal Transduction</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| References                                             | Complete cDNA sequence of human complement pro-C5. Evidence of truncated transcripts derived from a single copy gene. Haviland D.L., Haviland J.C., Fleischer D.T., Hunt A., Wetsel R.A.J. Immunol. 146:362-368(1991)<br>SeattleSNPs variation discovery resource                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 38016947                              |
| NCBI GeneID                      | 727                                   |
| NCBI Accession #                 | NP_001726.2                           |
| NCBI GenBank Nucleotide #        | NM_001735.2                           |
| UniProt Accession #              | P01031; Q14CJ0; Q27I61                |
| Molecular Weight                 | 12.3 kDa                              |
| NCBI Official Full Name          | complement C5 isoform 1 preproprotein |
| NCBI Official Synonym Full Names | complement component 5                |
| NCBI Official Symbol             | C5                                    |
| NCBI Official Synonym Symbols    | C5D; C5a; C5b; ECLZB; CPAMD4          |
| NCBI Protein Information         | complement C5                         |
| UniProt Protein Name             | Complement C5                         |
| UniProt Gene Name                | C5                                    |
| UniProt Synonym Gene Names       | CPAMD4                                |
| UniProt Entry Name               | CO5_HUMAN                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/c5-recombinant-protein-e-coli/115007>