# Complement C5 (C5) Recombinant Protein | C5 recombinant protein

Recombinant Rat Complement C5 (C5)

| CATALOG # | HOST |
|---|---|
| **AAA113272** | **E Coli or Yeast or Baculovirus or Mammalian Cell** |

## PRODUCT SYNONYMS

Complement C5 (C5); Recombinant Rat Complement C5 (C5); C5 recombinant protein

## PRODUCT SPECIFICATIONS

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|---|---|
| **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** | 1-77. Full length. |
| **Sequence** | DLQLLHQKVE EQAAKYKHRV PKKCCYDGAR ENKYETCEQR VARVTIGPHC IRAFNECCTI ADKIRKESHH KGMLLGR |
| **Sequence Length** | 77 |
| **Species** | Rat |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |

## ADDITIONAL INFORMATION

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| **Related Product Information for C5 recombinant protein** | This protein is the fifth component of complement, which plays an important role in inflammatory and cell killing processes. This protein is comprised of alpha and beta polypeptide chains that are linked by a disulfide bridge. An activation peptide, C5a, which is an anaphylatoxin that possesses potent spasmogenic and chemotactic activity, is derived from the alpha polypeptide via cleavage with a convertase. The C5b macromolecular cleavage product can form a complex with the C6 complement component, and this complex is the basis for formation of the membrane attack complex, which includes additional complement components. Mutations in this gene cause complement component 5 deficiency, a disease where patients show a propensity for severe recurrent infections. Defects in this gene have also been linked to a susceptibility to liver fibrosis and to rheumatoid arthritis. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 46397770 |
| **NCBI GeneID** | 362119 |
| **UniProt Accession #** | P08650; Q63078 |
| **Molecular Weight** | 14.0 kDa |
| **NCBI Official Full Name** | Complement C5 |
| **NCBI Official Synonym Full Names** | complement C5 |
| **NCBI Official Symbol** | C5 |
| **NCBI Official Synonym Symbols** | Hc; C5a; RGD1561905 |
| **NCBI Protein Information** | complement C5 |

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|---|---|
| **UniProt Protein Name** | Complement C5 |
| **UniProt Gene Name** | **C5** |

**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/113272