

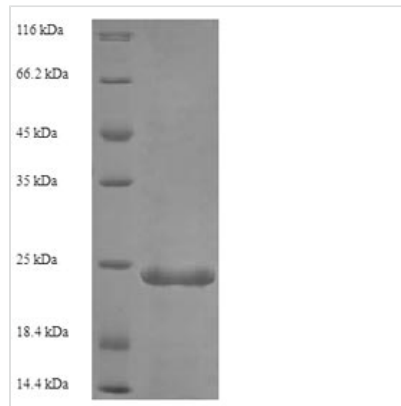


# Recombinant Human Complement C5 (C5), partial

<b>Product Code</b>	CSB-EP003995HU
<b>Relevance</b>	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.
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P01031
<b>Alias</b>	C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	TLQKKIEEIAAKYKHSVVKCCYDGACVNNDTCEQRAARISLGPRCIKAFTECCVVASQLRANISHKDMQLGR
<b>Lead Time</b>	Delivery time may differ from different purchasing way or location, please kindly consult your local distributors for specific delivery time.
<b>Research Area</b>	Signal Transduction
<b>Source</b>	E.coli
<b>Gene Names</b>	C5
<b>Protein Names</b>	Recommended name: Complement C5 Alternative name(s): C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4 Cleaved into the following 4 chains: 1. Complement C5 beta chain 2. Complement C5 alpha chain 3. C5a anaphylatoxin
<b>Expression Region</b>	678-751aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	24.3kDa
<b>Protein Description</b>	Partial



## Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

Expand your research possibilities in signal transduction with our premium Recombinant Human Complement C5 (C5) protein. Complement C5, encoded by the C5 gene, is a crucial component of the immune system's complement cascade, influencing a wide range of biological processes, including inflammation, cell lysis, and chemotaxis.

This recombinant protein offers a partial representation of the human Complement C5, spanning the 678-751aa expression region. Expertly produced in E.coli, the protein is designed with an N-terminal 6xHis-SUMO tag for seamless purification and detection methods. Our Recombinant Human Complement C5 boasts a purity greater than 90%, as determined by SDS-PAGE, ensuring a high-quality product for your experiments. Available in both liquid and lyophilized powder forms, this protein offers versatility and convenience to researchers in the signal transduction field.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.