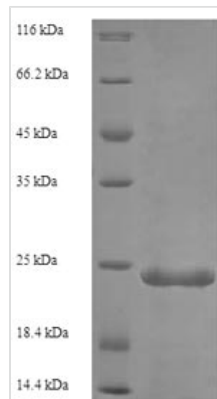




# Recombinant Human Complement C5 (C5), partial

<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>Abbreviation</b>	Recombinant Human C5 protein, partial
<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>	TLQKKIEEIAAKYKHSVVKKCCYDGACVNNDCTCEQRAARISLGPRCIKAFTECCVVASQLRANISHKDMQLGR
<b>Research Area</b>	Signal Transduction
<b>Source</b>	E.coli
<b>Target 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 Length</b>	Partial
<b>Image</b>	



(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.

## Shelf Life

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.