



# Recombinant Human Complement C5 (C5), partial

<b>Product Code</b>	CSB-YP003995HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P01031
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>QE QTYVISAPKI FRVGASENIV IQVYGYTEAF DATISIKSYP DKKFSYSSGH  VHLSSSENKFQ NSAILTIQPK QLPGGQNPVS YVYLEVSKH FSKSKRMPIT  YDNGFLFIHT DKPVYTPDQS VKVRVYSLND DLKPAKRETV LTFIDPEGSE  VDMVEEIDHI GIISFPDFKI PSNPRYGMWT IKAKYKEDFS TTGTAYFEVK  EYVLPHFSVS IEPEYNFIGY KNFKNFEITI KARYFYNKVV TEADVYITFG  IREDLKDDQK EMMQTAMQNT MLINGIAQVT FDSETAVKEL SYYSLEDLNN  KYLIAVTVI ESTGGFSEEA EIPGIKYVLS PYKLNLVATP LFLKPGIPYP  IKVQVKDSLQ QLVGGVPVTL NAQTIDVNQE TSDLDPKSKSV TRVDDGVASF  VLNLPSTGTV LEFNVKTDAP DLPEENQARE GYRAIAYSSL SQSYLYIDWT  DNHKALLVGE HLNIIVTPKS PYIDKITHYN YLILSKGKII HFGTREKFSD  ASYQSINIPV TQNMVPSSRL LVYYIVTGEQ TAEVSDSVW LNIEEKCGNQ  LQVHLSPDAD AYSPGQTVSL NMGTMDSWV ALAAVDSAVY GVQRGAKKPL  ERVFQFLEKS DLGCGAGGGL NNANVFHLAG LTFLTANANAD DSQENDEPCK  EIL</p>
<b>Source</b>	Yeast
<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>	19-673
<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>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Partial
<b>Target Details</b>	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.

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**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.

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**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.