

Recombinant human C5a



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CAT No. UCC008

LOT No. A0022

0.1 mg/vial

Product description

The C5 protein is the fifth component of complement and plays an important role in inflammatory and cell killing processes. C5 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.

Reference sequences: NM_001735
NP_001726
Swiss-prot P01031

Alternative names: anaphylatoxin
anaphylatoxin C5a analog
complement C5 isoform 1 preproprotein
Complement component 5
C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4
prepro-C5;
C5a anaphylatoxin"

Gene ID: 727

Residues 678-751 of human C5 were cloned, the protein was over-expressed in HEK293EBNA1 cells and was purified to homogeneity. The calculated molecular weight of recombinant human C5a is 9.5 kDa and it contains an N-terminal hexahistidine tag. Each vial contains 100 µg C5a.

Sequence

marplctlllmatlagalagshhhhhgstlqkkieeiaakykhsvkkccydgacvnnndetceqraarislgprcikafteccvasqlranishk
dmqlgr*

Storage and stability

Recombinant C5a should be stored at - 80 °C (stable for at least 1 year). The enzyme is stored in PBS. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

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