

Recombinant human C5a

Catalog C008
Lot A0022
0.1 mg/vial



Life Sciences Incubator
Yalelaan 62
3584 CM Utrecht
The Netherlands

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

marplctlllmatlagalagshhhhhghstlqkkieeiaakykhsvvkkccydgcavnndetceqraarislgprcikaftccvvasqlranishkdmqlgr*

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).

PRODUCT USE LIMITATIONS, WARRANTY, DISCLAIMER

U-Protein Express BV products contain chemicals which may be harmful if misused. Due care should be exercised with all U-Protein Express BV products to prevent direct human contact. All products are intended For Research Use Only and ARE NOT ALLOWED FOR USE IN HUMANS. Each U-Protein Express BV product is shipped with documentation stating specifications and other technical information. U-Protein Express BV products are warranted to meet or exceed the stated specifications. U-Protein Express BV's sole obligation and the customer's sole remedy is limited to replacement of products free of charge in the event products fail to perform as warranted. U-Protein Express BV makes no other warranty of any kind whatsoever, and SPECIFICALLY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES OF ANY KIND OR NATURE WHATSOEVER, DIRECTLY OR INDIRECTLY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, AS TO THE SUITABILITY, PRODUCTIVITY, DURABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE, MERCHANTABILITY, CONDITION, OR ANY OTHER MATTER WITH RESPECT TO U-Protein Express BV PRODUCTS. In no event shall U-Protein Express BV be liable for claims for any other damages, whether direct, incidental, foreseeable, consequential, or special (including but not limited to loss of use, revenue or profit), whether based upon warranty, contract, tort (including negligence) or strict liability arising in connection with the sale or the failure of U-Protein Express BV products to perform in accordance with the stated specifications.