

Complement C5a, human recombinant

CATALOG #: 4995B-20 20 µg
4995B-100 100 µg
4995B-1000 1 mg

SOURCE: *E. coli*

PURITY: >98% by SDS-PAGE.
Endotoxin level is <0.1 ng per µg of C5a.

FORM: Lyophilized with no additives

RECONSTITUTION:

Centrifuge the recombinant C5a protein vial prior to opening. Reconstitute C5a to a concentration of 1.0 mg/ml in ice-cold water containing 2.5 mg/ml BSA. The C5a solution should be aliquoted and immediately stored at -70° C for future use. Frozen/thaw may result in some loss of activity.

STORAGE CONDITIONS:

Store at -20° C or -70° C as supplied. Stable for at least 1 year. After reconstitution, store at -70° C.

DESCRIPTION:

Human complement C5a is a 74-amino acid glycopeptide generated during complement activation from the α -chain of complement C5. C5a is a potent chemotactic factor for human peripheral blood neutrophils and monocytes, and is believed to play an important role in a number of inflammatory conditions. The 74 amino acid, human C5a protein expressed in *E. coli* has an activity similar to that of serum derived C5a based on enzyme assay of myeloperoxidase release.

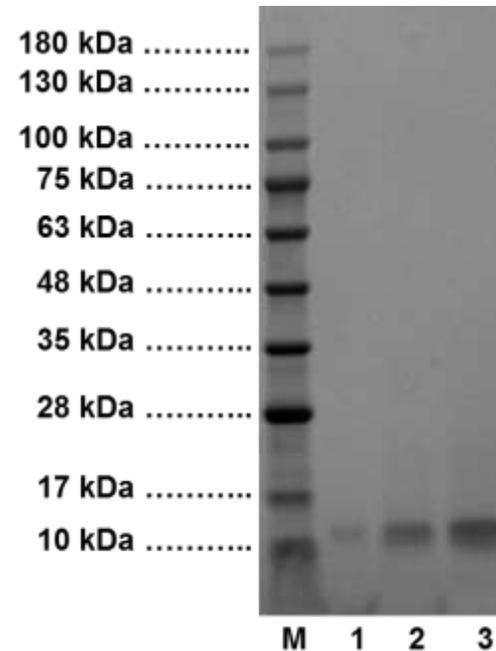
BIOLOGICAL ACTIVITY:

Human recombinant C5a is as active as that of serum derived C5a based on enzyme release assay of myeloperoxidase. The current lot of ED₅₀ = 1.36 nmolar.

AMINO ACID SEQUENCE:

TLQKKIEEIA AKYKHSVVKK CCYDGACVNN DETCEQRAAR ISLGPRIKA FTECCVVASQ
LRANISHKDM QLGR

FOR RESEARCH USE ONLY! Not to be used on humans.



SDS-PAGE (4-20%) of human C5a:

M: Protein Marker
1: 1 µg Human C5a
2: 5 µg Human C5a
3: 10 µg Human C5a

SDS-PAGE (4-20%) of human C5a: 1, 5 and 10 ug of Recombinant human compliment C5a loaded in each lane under reducing conditions and stained with Coomassie Blue. Recombinant human compliment C5a has a predicted MW of ~ 11 kDa.

RELATED PRODUCTS:

- C5a (His-Tag), human recombinant (**4995A-20, -100, -1000**)
- C5a (His-Tag), murine recombinant (**4895A-20, -100, -1000**)
- C5a Antibody (**5995-100**)
- C5a Antibody (**5895-100**)