

## 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  $\alpha$ -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.

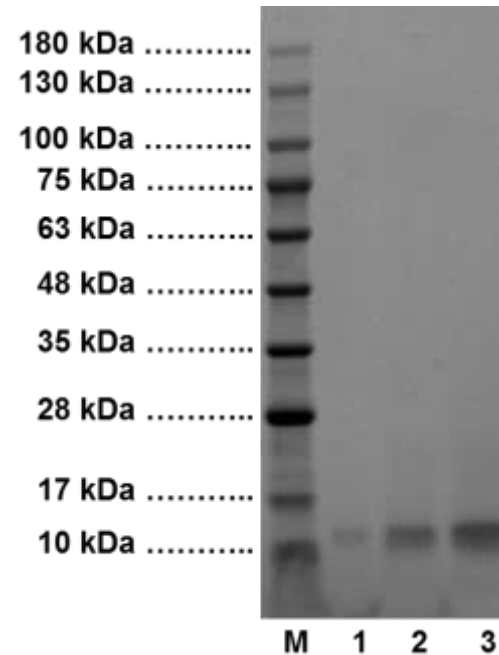
### BIOLOGICAL ACTIVITY:

Human recombinant C5a is as active as that of serum derived C5a based on enzyme release assay of myeloperoxidase. The current lot of ED<sub>50</sub> = 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 µg of Recombinant human complement C5a loaded in each lane under reducing conditions and stained with Coomassie Blue. Recombinant human complement 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**)