

## General Information

### Protein Construction

A DNA sequence encoding the active form of human C5a (Leu 679-Arg 751) was expressed.

### Organism

Human

### Expression Host

E. coli

## QC Testing

### Activity

Measured by its ability to induce N-acetyl- $\beta$ -D-glucosaminidase release from differentiated U937 human histiocytic lymphoma cells. The ED<sub>50</sub> for this effect is typically 5-15 ng/ml.

### Purity

> 94 % as determined by SDS-PAGE

### Endotoxin

Please contact us for more information.

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Based on N-terminal sequencing analysis, the first 7 aa of C5a is: MLQKKIE

## Molecular Mass

The recombinant human C5a consists of 74 amino acids and has a predicted molecular mass of 8.3 kDa which is also estimated by SDS-PAGE.

## Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

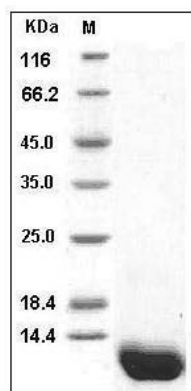
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

## SDS-PAGE



Human Complement C5a Protein SDS-PAGE