

For Research Use Only

# Recombinant Mouse C5 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3332

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Endotoxin Level:**  
<0.1 EU/ µg protein, LAL method

**Source:**  
HEK293-derived Mouse C5 protein Asn679-Arg755 (Accession# P06684) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
15139

**Accession:**  
P06684

**Predicted Molecular Mass:**  
35.2 kDa

**SDS-PAGE:**  
36-45 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

The complement system is an important effector that bridges the innate and adaptive immune systems. The fifth component of complement, C5, is part of the complement cascade and plays an important role in inflammation and cell killing. It consists of disulfide-linked alpha and beta polypeptide chains but can be cleaved into two active peptides (C5a and C5b) by C5 convertases. Mutations and defects in C5 are associated with severe recurrent infections.

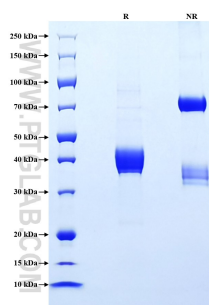
## References

- 1.Ajona, D. et al. (2024). Semin immunol. 77:101921.
- 2.Azoulay, E. et al. (2024). Intens care med. 50(11):1791-1803.
- 3.Merle, NS. et al. (2024). Eur j immunol. 54(10):e2350820.
- 4.Dunkelberger, JR. et al. (2010). Cell res. 20(1):34-50.
- 5.DiScipio, RG. et al. (1983). J biol chem. 258(17):10629-36.

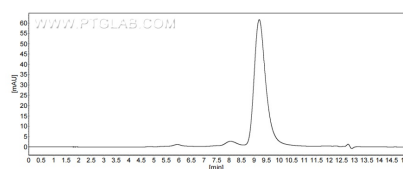
## Synonyms

C5a anaphylatoxin, Complement C5, Complement C5 alpha chain, Complement C5 alpha' chain, Complement C5 beta chain

## Selected Validation Data



Purity of Recombinant Mouse C5 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse C5 was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

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