

For Research Use Only

# Recombinant Human C5AR1/CD88 protein (rFc Tag)

Catalog Number: Eg2185



## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<1.0 EU/μg protein, LAL method

**Source:**

HEK293-derived Human C5AR1/CD88 protein Met1-Asp37 (Accession# P21730) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

728

**Accession:**

P21730

**Predicted Molecular Mass:**

30.5 kDa

**SDS-PAGE:**

**Formulation:**

Lyophilized from sterile 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

C5aR, also named as CD88, is a G protein-coupled receptor for the anaphylatoxin C5a, a cleavage product of the complement cascade. The C5a ligand is a proinflammatory component of host defense. C5aR is activated upon binding of the C5a molecule. Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production. The deduced sequence of C5aR contains 350 amino acids, giving a calculated molecular weight of 39 kDa. C5aR has an N-linked glycosylation site in the N-terminal extracellular domain. The apparent molecular weight of C5aR is about 40-52 kDa.

## References

1. Gerard, N P, and C Gerard. Nature vol. 349,6310 (1991): 614-7.
2. Schieferdecker, H L et al. FEBS letters vol. 406,3 (1997): 305-9.
3. Boulay, F et al. Biochemistry vol. 30,12 (1991): 2993-9.

## Synonyms

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

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