

PRODUCT INFORMATION

C5AR1 **Target**

Synonyms C5A;C5AR;C5R1;CD88

Recombinant Human C5AR1 Protein with C-**Description**

terminal human Fc tag

Delivery In Stock **Uniprot ID** P21730 **Expression Host HEK293**

Tag C-Human Fc Tag

Molecular

Storage & Shipping

C5AR1(Met1-Asp37) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of

30.4 kDa after removal of the signal peptide. The apparent molecular mass of C5AR1-hFc is **Molecular Weight**

approximately 40-53 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a (PubMed:1847994, PubMed:8182049, PubMed:7622471, PubMed:9553099, PubMed:10636859, PubMed:15153520, PubMed:29300009). The ligand interacts with at least two sites on the receptor: a high-affinity site on the extracellular

Background N-terminus, and a second site in the

transmembrane region which activates

downstream signaling events (PubMed:8182049, PubMed:7622471, PubMed:9553099). Receptor activation stimulates chemotaxis, granule

enzyme release, intracellular calcium release and

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superoxide anion production.

Usage Research use only Conjugate Unconjugated





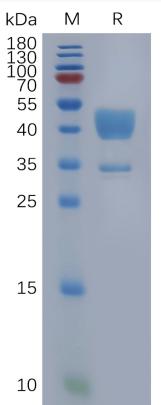


Figure 1. Human C5AR1 Protein, hFc Tag on SDS-PAGE under reducing condition.

Human C5AR1, hFc Tagged protein ELISA

 $0.2~\mu g$ of Human C5AR1, hFc tagged protein per well

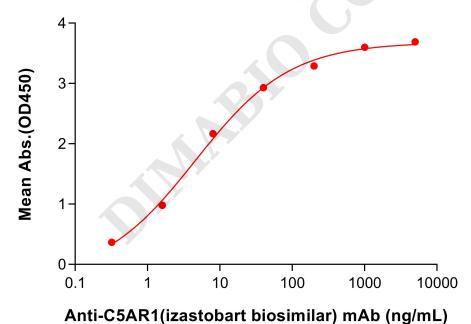


Figure 2. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human C5AR1 Protein, hFc Tag (PME100830) can bind Anti-C5AR1(izastobart biosimilar) mAb (BME100544) in a linear range of 1.6–8 ng/mL, mouse anti-human Fab-specific antibody was used as detection antibody.

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