PRODUCT INFORMATION

Target	C5AR1
Synonyms	C5A;C5AR;C5R1;CD88
Description	Recombinant Human C5AR1 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P21730
Expression Host	HEK293
Tag	C-Human Fc Tag
Molecular Characterization	C5AR1(Met1-Asp37) hFc(Glu99-Ala330)
Molecular Weight	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 approximately 40-53 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	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.
Background	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 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 superoxide anion production.
Usage	Research use only
Conjugate	Unconjugated

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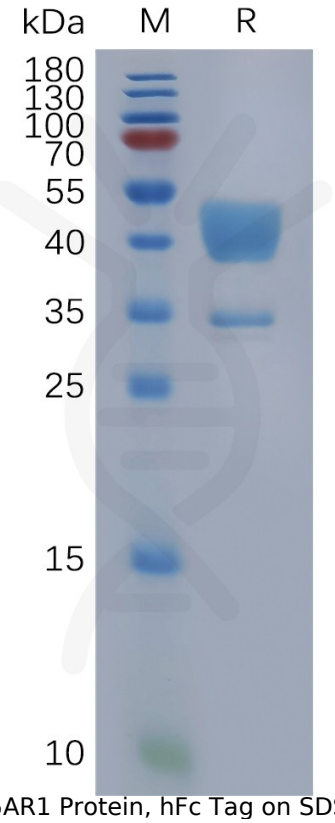


Figure 1. Human C5AR1 Protein, hFc Tag on SDS-PAGE under reducing condition.

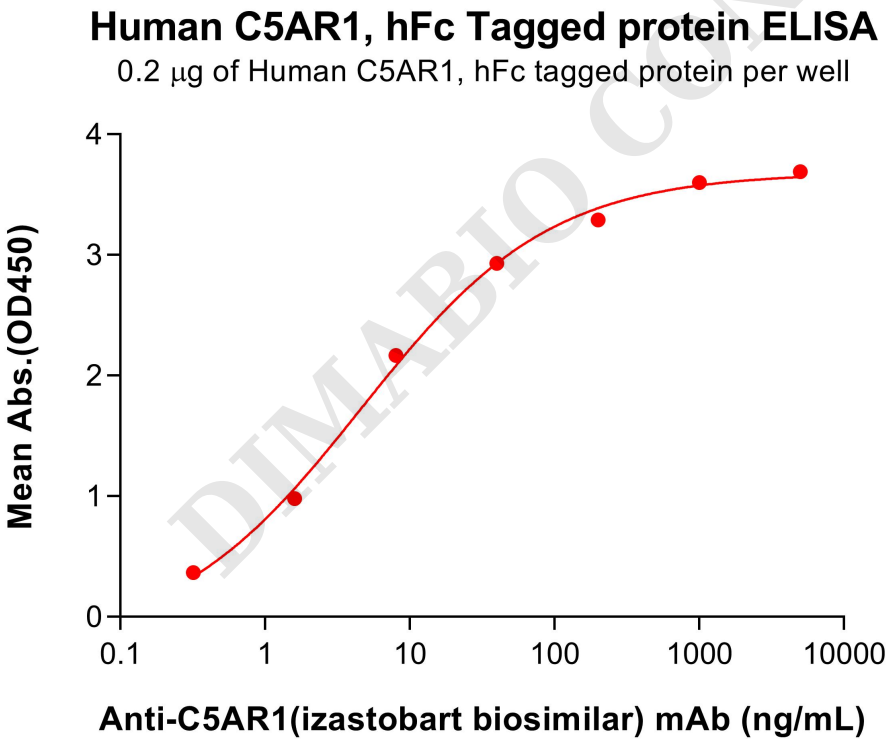


Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human C5AR1 Protein, hFc Tag (PME100830) can bind Anti-C5AR1(izastobart biosimilar) mAb (BME100544) in a linear range of 1.6–8 ng/mL, mouse anti-human Fab-specific antibody was used as detection antibody.

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