

HUMAN C5AR1 PROTEIN, HFC TAG

Cat.#: 11611

Product Name: Human C5AR1 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: C5A;C5AR;C5R1;CD88

Target: C5AR1

UNIPROT ID: P21730

Description: Recombinant Human C5AR1 Protein with C-terminal human Fc tag

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.

Species/Host: HEK293

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.

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

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

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.

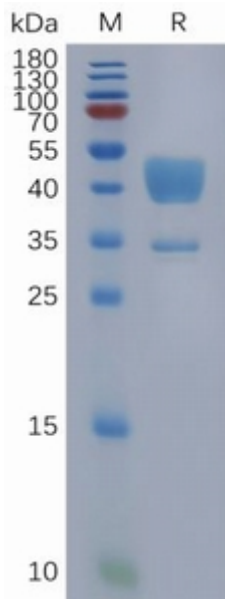


Figure 1. Human C5AR1 Protein, hFc Tag on SDS-PAGE under reducing condition.