

## PRODUCT INFORMATION

<b>Target</b>	C3AR1
<b>Synonyms</b>	AZ3B; C3AR; C3R1; HNFAG09; C3a anaphylatoxin chemotactic receptor
<b>Description</b>	Recombinant human C3AR1 Protein with C-terminal human Fc tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	Q16581
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Human Fc tag
<b>Molecular Characterization</b>	C3AR1(Met1-Val23) hFc(Glu99-Ala330)
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 28.7 kDa after removal of the signal peptide.
<b>Purity</b>	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
<b>Formulation &amp; Reconstitution</b>	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.
<b>Storage&amp;Shipping</b>	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.
<b>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Background</b>	C3AR1 encodes the C3a receptor (C3aR1), a G-protein coupled receptor (GPCR) that binds the complement component C3a, a key anaphylatoxin in the immune system. C3AR1 couples primarily to Gi proteins, leading to inhibition of adenylyl cyclase, Ca <sup>2+</sup> mobilization, and activation of MAPK and NF-κB signaling. It is expressed on immune cells including neutrophils, monocytes, macrophages, and mast cells, where it mediates chemotaxis, degranulation, cytokine release, and inflammatory responses. C3AR1 plays a critical role in innate immunity, inflammation, and host defense, and dysregulation is implicated in allergic diseases, sepsis, autoimmune disorders, and cancer.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



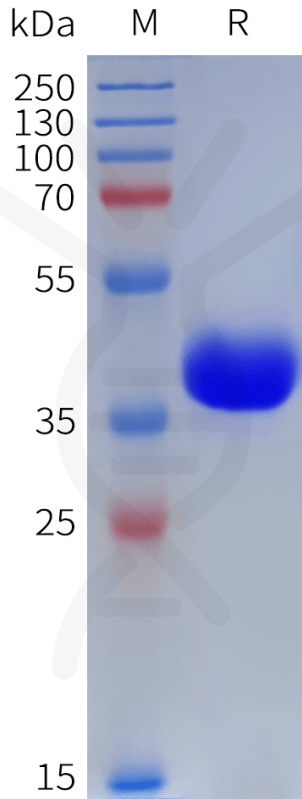


Figure 1. Human C3AR1 Protein, hFc Tag on SDS-PAGE under reducing condition.

