

PRODUCT INFORMATION

C3AR1 **Target**

AZ3B; C3AR; C3R1; HNFAG09; C3a anaphylatoxin **Synonyms**

chemotactic receptor

Recombinant human C3AR1 Protein with C-**Description**

terminal human Fc tag

Delivery In Stock **Uniprot ID** Q16581 **Expression Host HEK293**

Tag C-Human Fc tag

Molecular

Purity

Background

C3AR1(Met1-Val23) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 28.7 kDa after removal of the signal peptide.

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

staining.

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

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

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

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, Ca²⁺ mobilization, and activation of MAPK and NF-κB signaling. It is expressed on immune cells including neutrophils, monocytes, macrophages, and mast cells, where

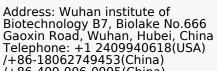
it mediates chemotaxis, degranulation, cytokine release, and inflammatory responses. C3AR1 plays a critical role in innate immunity,

inflammation, and host defense, and

dysregulation is implicated in allergic diseases, sepsis, autoimmune disorders, and cancer.

Usage Research use only

Conjugate Unconjugated



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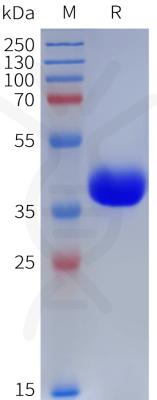
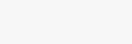


Figure 1. Human C3AR1 Protein, hFc Tag on SDS-PAGE under reducing condition.



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