

PRODUCT INFORMATION

Target	C3AR1
Synonyms	AZ3B; C3AR; C3R1; HNFAG09; C3a anaphylatoxin chemotactic receptor
Description	Recombinant human C3AR1 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	Q16581
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	C3AR1(Met1-Val23) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 28.7 kDa after removal of the signal peptide.
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	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 ²⁺ 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



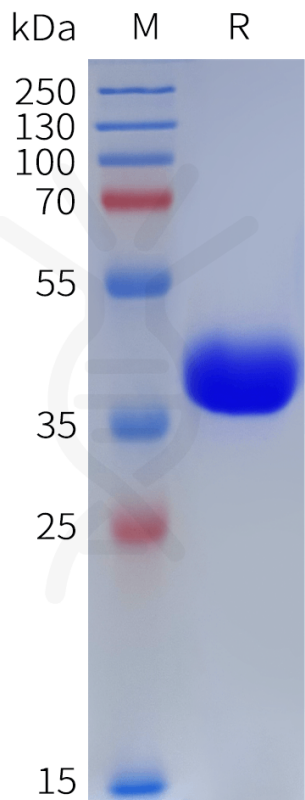


Figure 1. Human C3AR1 Protein, hFc Tag on SDS-PAGE under reducing condition.

