

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	C3AR1
Synonyms	AZ3B; C3AR; HNFAG09
Description	Human C3AR1-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	Q16581
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Complement and coagulation cascades, Neuroactive ligand-receptor interaction
Molecular Weight	The human full length C3AR1-Strep protein has a MW of 53.9 kDa
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. 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	C3a is an anaphylatoxin released during activation of the complement system. The protein is an orphan G protein-coupled receptor for C3a. Binding of C3a by the encoded receptor activates chemotaxis, granule enzyme release, superoxide anion production, and bacterial opsonization.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate C3AR1-Strep-Nanodisc
0.2µg Human C3AR1-Strep-Nanodisc per well

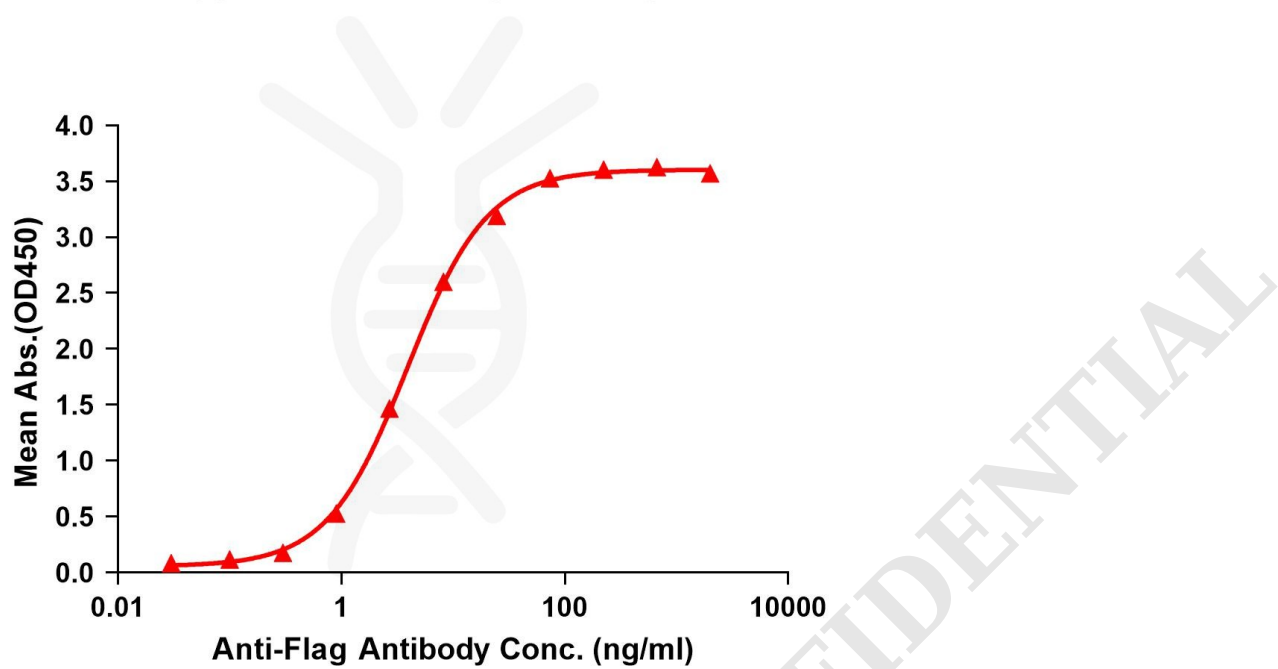


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag C3AR1-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with C3AR1-Strep-nanodisc is 3.903ng/ml.

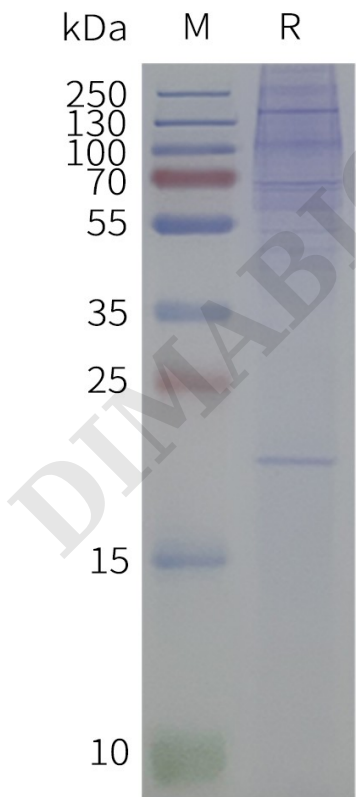


Figure 2. Human C3AR1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

