

PRODUCT INFORMATION

Tag	C-Flag Tag
Expression Host	HEK293
Target	C5AR1
Synonyms	C5A; C5AR; C5R1; CD88
Description	Human C5AR1 full length protein-synthetic nanodisc
Uniprot ID	P21730
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Complement and coagulation cascades, Neuroactive ligand-receptor interaction
Molecular Weight	The human full length C5AR1 protein has a MW of 39.3 kDa
Delivery	In Stock
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. Do not use solvents with a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
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	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a. 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. Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate C5AR1-Nanodisc 0.2 μ g Human C5AR1-Nanodisc per well

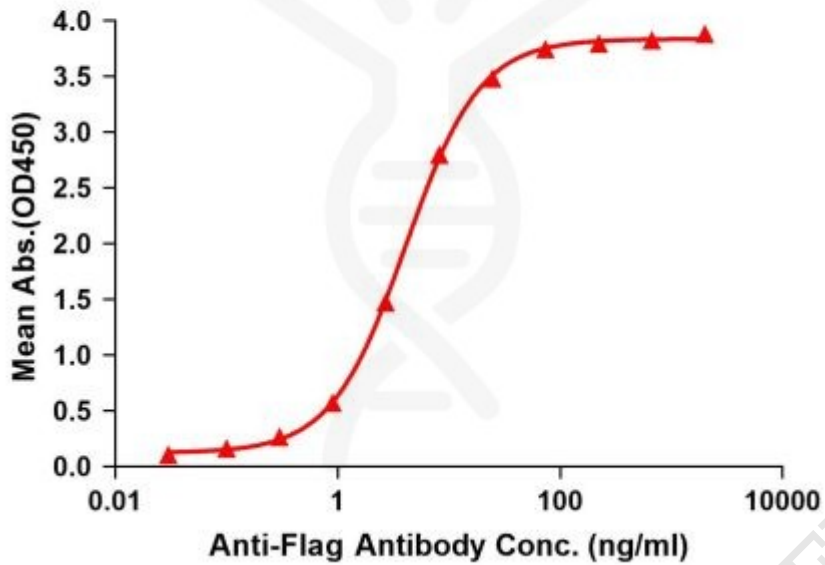


Figure1. Elisa plates were pre-coated with Flag Tag C5AR1-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with C5AR1-Nanodisc is 4.088ng/ml.



Figure2. Human C5AR1-Nanodisc, Flag Tag on SDS-PAGE

