

## HUMAN CMKLR1 FULL LENGTH PROTEIN

**Cat.#:** 11107

**Product Name:** Human CMKLR1 Full Length Protein

**Size :** 10 µg; 50 µg and 100 µg

**Synonyms:** CHEMERINR; ChemR23; DEZ; RVER1

**Target:** CMKLR1

**UNIPROT ID:** Q99788

**Description:** Human CMKLR1 Full Length Protein-Synthetic Nanodisc

**Background:** Receptor for the chemoattractant adipokine chemerin/RARRES2 and for the omega-3 fatty acid derived molecule resolvin E1. Interaction with RARRES2 induces activation of intracellular signaling molecules, such as SKY, MAPK1/3 (ERK1/2), MAPK14/P38MAPK and PI3K leading to multifunctional effects, like, reduction of immune responses, enhancing of adipogenesis and angiogenesis. Resolvin E1 down-regulates cytokine production in macrophages by reducing the activation of MAPK1/3 (ERK1/2) and NF-kappa-B. Positively regulates adipogenesis and adipocyte metabolism. Acts as a coreceptor for several SIV strains (SIVMAC316, SIVMAC239, SIVMAC17E-FR and SIVSM62A), as well as a primary HIV-1 strain (92UG024-2).

**Species/Host:** HEK293

**Molecular Weight:** The human full length CMKLR1 protein has a MW of 42.3 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.

**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.

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** N/A

### ELISA assay to evaluate CMKLR1-Nanodisc 0.2µg Human CMKLR1-Nanodisc per well

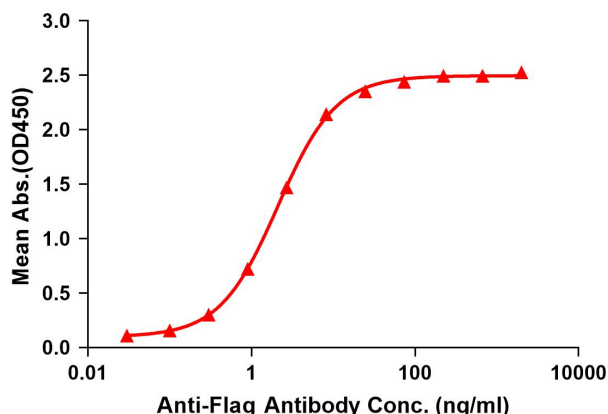


Figure 1. Elisa plates were pre-coated with Flag Tag CMKLR1-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CMKLR1-Nanodisc is 2.107ng/ml.

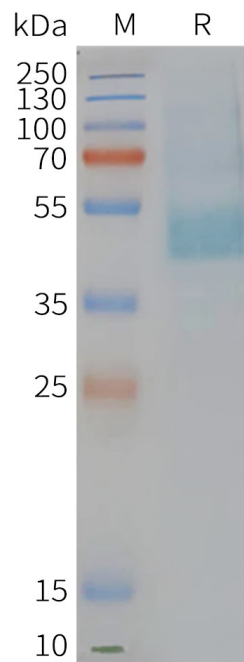


Figure 2. Human CMKLR1-Nanodisc, Flag Tag on SDS-PAGE