

HUMAN CXCR6 FULL LENGTH PROTEIN

Cat.#: 11105

Product Name: Human CXCR6 Full Length Protein

Size: 10 µg; 50 µg and 100 µg

Synonyms: BONZO; CD186; CDW186; STRL33; TYMSTR

Target: CXCR6

UNIPROT ID: O00574

Description: Human CXCR6 Full Length Protein-Synthetic Nanodisc

Background: A G protein-coupled receptor with seven transmembrane domains that belongs to the CXC chemokine receptor family. This family also includes CXCR1, CXCR2, CXCR3, CXCR4, CXCR5, and CXCR7. This gene, which maps to the chemokine receptor gene cluster, is expressed in several T lymphocyte subsets and bone marrow stromal cells. The encoded protein and its exclusive ligand, chemokine ligand 16 (CCL16), are part of a signalling pathway that regulates T lymphocyte migration to various peripheral tissues (the liver, spleen red pulp, intestine, lungs, and skin) and promotes cell-cell interaction with dendritic cells and fibroblastic reticular cells. CXCR6/CCL16 also controls the localization of resident memory T lymphocytes to different compartments of the lung and maintains airway resident memory T lymphocytes, which are an important first line of defense against respiratory pathogens. The encoded protein serves as an entry coreceptor used by HIV-1 and SIV to enter target cells, in conjunction with CD4.

Species/Host: HEK293

Molecular Weight: The human full length CXCR6 protein has a MW of 39.3 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: Chemokine signaling pathway, Cytokine-cytokine receptor interaction

ELISA assay to evaluate CXCR6-Nanodisc 0.2µg Human CXCR6-Nanodisc per well

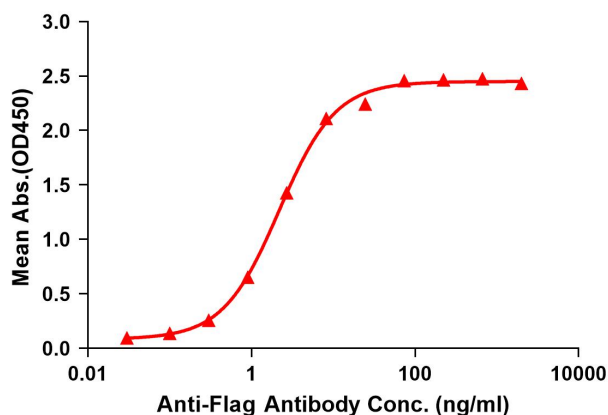


Figure 1. Elisa plates were pre-coated with Flag Tag CXCR6-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CXCR6-Nanodisc is 2.190ng/ml.



Figure 2. Human CXCR6-Nanodisc, Flag Tag on SDS-PAGE