**Delivery** 

**Expression Host** 

**Background** 



## **PRODUCT INFORMATION**

C-Flag Tag Tag CXCR4 **Target** 

CD184; D2S201E; FB22; HM89; HSY3RR; LAP-3; LAP3; LCR1; LESTR; NPY3R; NPYR; NPYRL; **Synonyms** 

NPYY3R; WHIM; WHIMS

Human CXCR4 full length protein-synthetic **Description** 

nanodisc In Stock **Uniprot ID** P61073

Druggable Genome, ES Cell Differentiation/IPS. **Protein Families** 

GPCR, Transmembrane

Axon guidance, Chemokine signaling pathway,

Cytokine-cytokine receptor interaction, **Protein Pathways** Endocytosis, Leukocyte transendothelial

migration

The human full length CXCR4 protein has a MW of **Molecular Weight** 

39.7 kDa

**HEK293** 

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% Formulation & 8% trehalose is added as protectants before Reconstitution

lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. 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). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

A CXC chemokine receptor specific for stromal cell-derived factor-1. The protein has 7

transmembrane regions and is located on the cell

surface. It acts with the CD4 protein to support HIV entry into cells and is also highly expressed in breast cancer cells. Mutations in this gene have

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been associated with WHIM (warts,

hypogammaglobulinemia, infections, and

myelőkathexis) syndrome.

Usage Research use only

Conjugate Unconjugated







## **ELISA assay to evaluate CXCR4-Nanodisc** 0.2µg Human CXCR4-Nanodisc per well

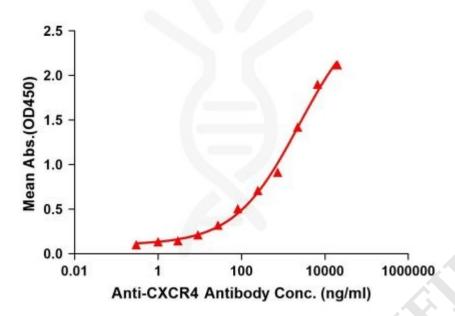


Figure 1. Elisa plates were pre-coated with Flag Tag CXCR4-Nanodisc (0.2µg/per well). Serial diluted anti-CXCR4 monoclonal antibody (BME100101) solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-CXCR4 monoclonal antibody binding with CXCR4-Nanodisc is 2442ng/ml.



Figure 2. Human CXCR4-Nanodisc, Flag Tag on SDS-PAGE

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Muratspahić, E., Feldman, D., Kim, D. E., Qu, X., Bratovianu, A. M., Rivera-Sánchez, P., Dimitri, F., Cao, J., Cary, B. P., Belousoff, M. J., Keov, P., Chen, Q., Ren, Y., Fine, J., Sappington, I., Schlichthaerle, T., Zhang, J. Z., Pillai, A., Mihaljević Bauer, M., ... Baker, D. (2025). De novo design of miniprotein agonists and antagonists targeting G protein-coupled protein server for biology. 2015;073@01644666c.chttps://doi.org/10.1101/2025.03.23.644 Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) Website: www.dimabio.com

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Human CXCR4 full length protein-synthetic nanodisc

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