Cat. No. FLP100100



PRODUCT INFORMATION

C-Flag Tag Tag

CCR5 **Target**

CC-CKR-5; CCCKR5; CCR-5; CD195; CKR-5; CKR5; **Synonyms**

CMKBR5; IDDM22

Human CCR5 full length protein-synthetic Description

nanodisc In Stock

Delivery Uniprot ID P51681 **HFK293 Expression Host**

Formulation &

Reconstitution

Storage & Shipping

Background

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

GPCR, Transmembrane

Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Endocytosis **Protein Pathways**

The human full length CCR5 protein has a MW of **Molecular Weight**

40.5 kDa

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. 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.

A member of the beta chemokine receptor family, which is predicted to be a seven transmembrane protein similar to G protein-coupled receptors.

This protein is expressed by T cells and macrophages, and is known to be an important co-receptor for macrophage-tropic virus, including HIV, to enter host cells. Defective alleles of this gene have been associated with the HIV infection resistance. The ligands of this receptor include monocyte chemoattractant protein 2 (MCP-2), macrophage inflammatory protein 1 alpha (MIP-1 alpha), macrophage inflammatory protein 1 beta (MIP-1 beta) and regulated on activation normal T

expressed and secreted protein (RANTES) Expression of this gene was also detected in a promyeloblastic cell line, suggesting that this protein may play a role in granulocyte lineage proliferation and differentiation. This gene is located at the chemokine receptor gene cluster region. An allelic polymorphism in this gene results in both functional and non-functional alleles; the reference genome represents the

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functional allele.

Usage Research use only

Conjugate Unconjugated

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ELISA assay to evaluate CCR5-Nanodisc 0.2µg Human CCR5-Nanodisc per well

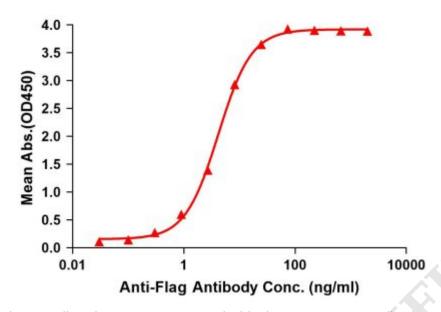


Figure 1. Elisa plates were pre-coated with Flag Tag CCR5-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CCR5-Nanodisc is 4.18ng/ml.



Figure 2. Human CCR5-Nanodisc, Flag Tag on SDS-PAGE



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