# Biotinylated Human CCR4 Nanodisc

**Cat. No.** CCR-HM14NB

## Description

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| **Source** | Recombinant Biotinylated Human CCR4 Nanodisc is expressed from HEK293 with His tag at the C-terminus. |
| | It contains Met1-Leu360. |
| **Accession** | P51679 |
| **Molecular Weight** | The protein has a predicted MW of 54.3 kDa. |
| **Endotoxin** | Less than 1 EU per μg by the LAL method. |

## Formulation and Storage

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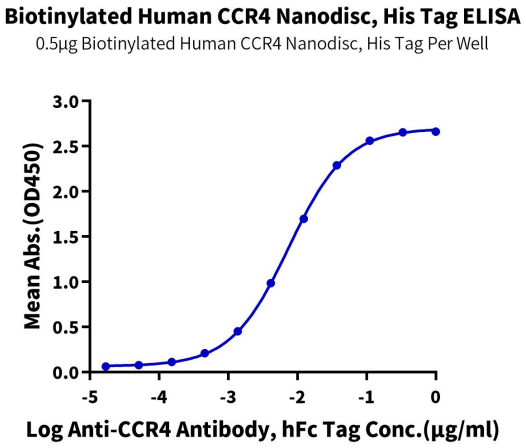
| **Formulation** | Supplied as 0.22 μm filtered solution in PBS, 200mM L-arginine (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells. |
| **Storage** | Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

CC chemokine receptor 4 (CCR4) is a chemokine receptor mainly expressed by T cells. CCR4 is important in the pathogenesis of many diseases, such as diabetes, multiple sclerosis, asthma, dermatitis, and cancer. This review briefly characterizes CCR4 and its ligands (CCL17, CCL22, and CCL2), and their contributions to immunological and neoplastic diseases.

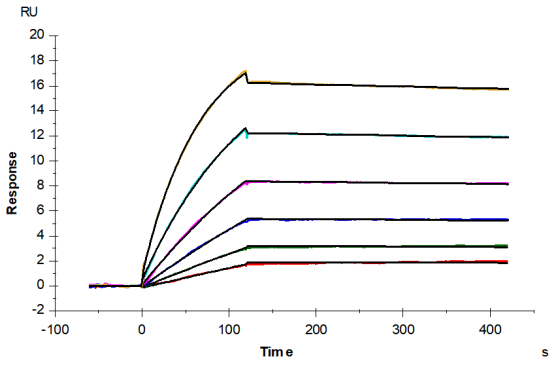
## Assay Data

### ELISA Data




Immobilized Biotinylated Human CCR4 Nanodisc, His Tag at 5μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Anti-CCR4 Antibody, hFc Tag with the EC50 of 7.5ng/ml determined by ELISA.

### SPR Data




Biotinylated Human CCR4 Nanodisc, His Tag captured on CM5 Chip via Streptavidin can bind Anti-CCR4 Antibody, hFc Tag with an affinity constant of 0.64 nM as determined in SPR assay (Biacore T200).