Biotinylated Human CXCR4 Nanodisc

Cat. No. CXR-HM1RNB

Description

Source	Recombinant Biotinylated Human CXCR4 Nanodisc is expressed from HEK293 with His tag at the C-terminus.
	It contains Met1-Ser352.
Accession	P61073-1
Molecular Weight	The protein has a predicted MW of 52.60 kDa.
Endotoxin	Less than 1 EU per μg by the LAL method.

Formulation and Storage

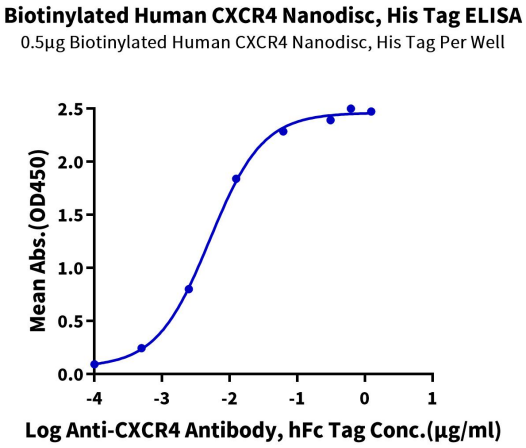
Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4). Notice: Not recommended for flow cytometry in mammalian cells.
Storage	Valid for 6 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw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

Background

CXC chemokine receptor type 4 (CXCR4) is a member of the G protein-coupled receptors (GPCRs) superfamily and is specific for CXC chemokine ligand 12 (CXCL12, also known as SDF-1), which makes CXCL12/CXCR4 axis. CXCR4 interacts with its ligand, triggering downstream signaling pathways that influence cell proliferation chemotaxis, migration, and gene expression.

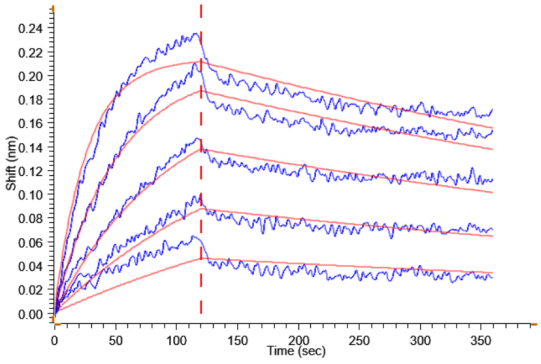
Assay Data

ELISA Data



Immobilized Biotinylated Human CXCR4 Nanodisc, His Tag at 5μg/ml (100μl/well) on the streptavidin precoated plate (5μg/ml). Dose response curve for Anti-CXCR4 Antibody, hFc Tag with the EC50 of 5.1ng/ml determined by ELISA (QC Test).

BLI Data



Loaded Biotinylated Human CXCR4 Nanodisc, His Tag on Streptavidin-Biosensor can bind Anti-CXCR4 Antibody, hFc Tag with an affinity constant of 0.18 nM as determined in BLI assay (Gator® Prime).