

Biotinylated Human CXCR5 Nanodisc

Cat. No. CXC-HM1RNB



Description

Source	Recombinant Biotinylated Human CXCR5 Nanodisc is expressed from HEK293 with His tag at the C-terminus. It contains Met1-Phe372.
Accession	P32302-1
Molecular Weight	The protein has a predicted MW of 54.9 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, 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

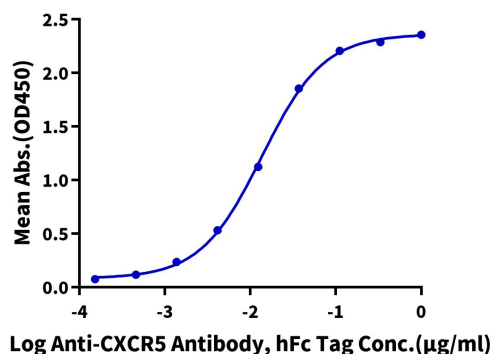
CXCR5 is a serpentine receptor implicated in cell migration in lymphocytes and differentiation in leukocytes. It causes MAPK pathway activation and has known membrane partners for signaling. CXCR5 is also expressed in HL-60 cells, a human acute myeloid leukemia line, following treatment with all-trans retinoic acid, which induces differentiation toward a neutrophil-like state. CXCR5 is necessary for this process; differentiation was crippled in CXCR5 knockout cells and enhanced in cells ectopically expressing it.

Assay Data

ELISA Data

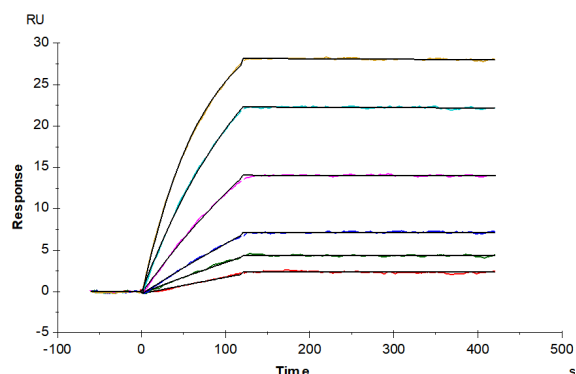
Biotinylated Human CXCR5 Nanodisc, His Tag ELISA

0.1µg Biotinylated Human CXCR5 Nanodisc, His Tag Per Well



Immobilized Biotinylated Human CXCR5 Nanodisc, His Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-CXCR5 Antibody, hFc Tag with the EC50 of 13.7ng/ml determined by ELISA.

SPR Data



Biotinylated Human CXCR5 Nanodisc, His Tag captured on CM5 Chip via Streptavidin can bind Anti-CXCR5 Antibody, hFc Tag with an affinity constant of 15.36 pM as determined in SPR assay (Biacore T200).