Product Name: Biotinylated, Human CXCR4 Full Length Protein, Displayed on Virus-Like Particles (VLPs)

Product Code: BCMP-24005

FOR RESEARCH USE ONLY (RUO)

Protein Name: CXCR4, Biotinylated VLP

Alternate Name(s): FB22, HM89, LAP3, LCR1, NPYR, WHIM, CD184, LAP-3, LESTR, NPY3R, NPYRL, WHIMS, HSY3RR, NPYY3R, WHIMS1, and D2S201E

Expression Host
HEK293T

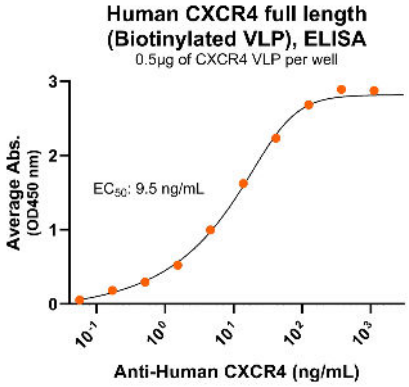
Protein Construct
The human CXCR4 full length protein (UniProt# P61073), displayed on biotinylated nanoparticles and mimics the native protein conformation on the cell surface. Expressed in HEK293T cell line.

Shipping Conditions
Frozen Dry Ice

Formulation
0.45µm filtered PBS, pH 7.4

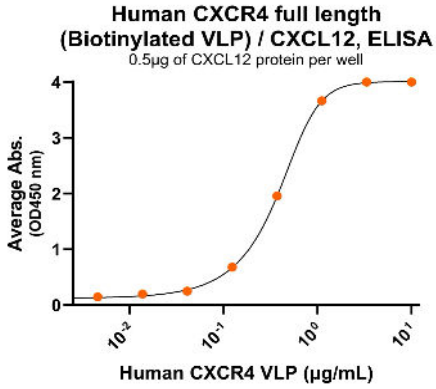
Stability & Storage
On receipt, store at -70 C or lower for long term storage.
This product is stable at:
-70 C for 6 months from date of receipt.
Avoid repeated freeze-thaw cycles

Antibody Binding



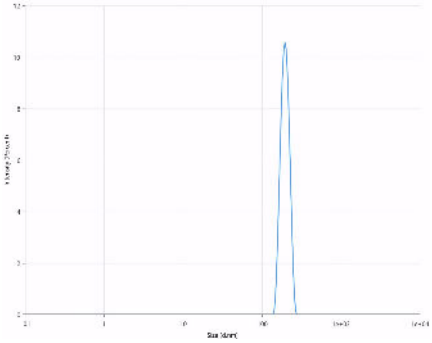
Immobilized human CXCR4 biotinylated VLP (Cat. No. BCMP-24005) at 5 μg/mL (100 μL/well) can bind monoclonal anti-human CXCR4 antibody with half maximal effective concentration (EC50) range of 4.8-19 ng/mL (QC tested).

Ligand Binding



Immobilized human CXCL12 at 5 μg/mL (100 μL/well) can bind human CXCR4 biotinylated VLP (Cat. No. BCMP-24005) (QC tested).

DLS



The mean peak diameter (nm) of the CMP is 202.8 with a range of 192.2-212.2 with more than 95% intensity as determined by dynamic light scattering (DLS).

Background

C-X-C chemokine receptor type 4 (CXCR4) is also known as CD184, D2S201E, FB22, HM89, HSY3RR, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NPYY3R or WHIM. CXCR-4 is a G protein-coupled receptor (GPCR) for the C-X-C motif chemokine 12 (CXCL12), also known as stromal cell-derived factor 1 (SDF-1). CXCR4 also acts as a co-receptor for HIV infection.