Active Recombinant Full Length Human CXCR4 Protein, Virus-Like Particles

Cat. No. CXCR4-17H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CXCR4 (C-X-C motif chemokine receptor 4) is a receptor for chemokine CXCL12 and co-receptor for HIV-1 envelope glycoprotein (Env), also known as FB22, HM89, LAP3, LCR1, NPYR, WHIM, CD184, LAP-3, LESTR, NPY3R, NPYRL, WHIMS, HSY3RR, NPYY3R, WHIMS1, and D2S201E. CXCR4 is a G protein-coupled receptor (GPCR) with seven transmembrane domains. The human CXCR4 full length protein (amino acids Met1-Ser352; UniProt# P61073), displayed on Virus-Like Particles (VLPs), mimics the native protein conformation on the cell surface. The CXCR4 Virus-Like Particle (VLP) is expressed in HEK293 cells. The CXCR4 has potent binding to its ligands CXCL12 and HIV-1 Env, and the CXCR4-specific antibodies.
Species	Human
Source	HEK293T
ProteinLength	1-352 aa
Description	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.

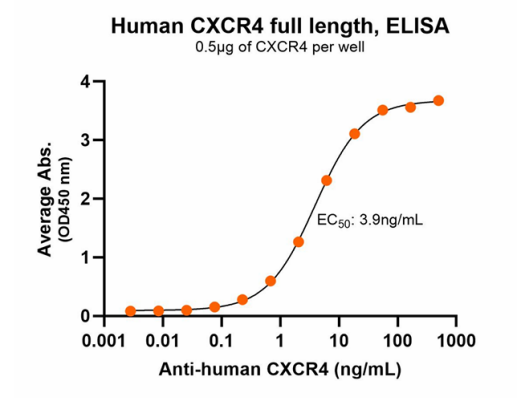
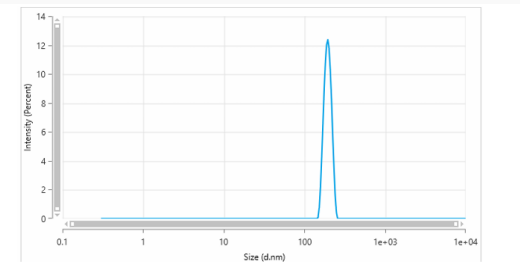
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Form	0.45 μm filtered PBS, pH 7.4
Applications	Verified Applications: ELISA for CXCR4-specific antibody binding assays. Suggested Applications: Animal immunization, RUO.
Storage	Store at -80 centigrade.
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene Name	CXCR4 chemokine (C-X-C motif) receptor 4 [Homo sapiens (human)]
Official Symbol	CXCR4
Synonyms	CXCR4; chemokine (C-X-C motif) receptor 4; chemokine (C X C motif), receptor 4 (fusin); C-X-C chemokine receptor type 4; CD184; D2S201E; fusin; HM89; HSY3RR; LESTR; NPY3R; NPYR; NPYY3R; CXC-R4; CXCR-4; CD184 antigen; SDF-1 receptor; neuropeptide Y receptor Y3; seven transmembrane helix receptor; stromal cell-derived factor 1 receptor; lipopolysaccharide-associated protein 3; seven-transmembrane-segment receptor, spleen; leukocyte-derived seven transmembrane domain receptor; leukocyte-derived seven-transmembrane-domain receptor; FB22; LAP3; LCR1; WHIM; NPYRL;
Gene ID	7852
mRNA Refseq	NM_001008540
Protein Refseq	NP_001008540
MIM	162643

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UniProt ID	P61073
Bioactivity-Antibody Binding	 Immobilized human CXCR4 VLP at 5 μg/mL (100 μL/well) can bind anti-human CXCR4 monoclonal antibody with half maximal effective concentration (EC50) range of 2.3-9.19 ng/mL.
DLS	 The mean peak diameter (nm) is 185.3 with a range of 161.3-203.5 with more than 95% intensity as determined by dynamic light scattering (DLS).

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