

C-X-C chemokine receptor type 4 (CXCR4) Recombinant Protein | CXCR4 recombinant protein

Recombinant Human C-X-C chemokine receptor type 4 (CXCR4)-VLPs (Active)

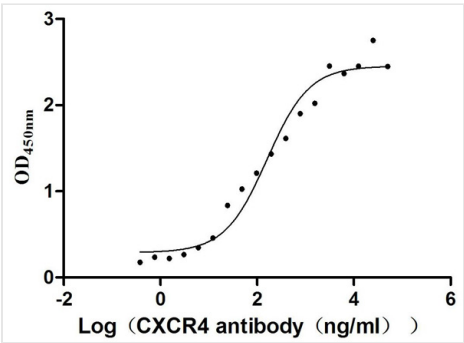
CATALOG # AAA279269	HOST Mammalian cell
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PRODUCT SYNONYMS

C-X-C chemokine receptor type 4 (CXCR4); Recombinant Human C-X-C chemokine receptor type 4 (CXCR4)-VLPs (Active); CXC-R4; CXCR-4; FB22; Fusin; HM89; LCR1; Leukocyte-derived seven transmembrane domain receptor; LESTR; Lipopolysaccharide-associated protein 3; LAP-3; LPS-associated protein 3; NPYRL; Stromal cell-derived factor 1 receptor; SDF-1 receptor; CD antigen CD184; CXCR4 recombinant protein

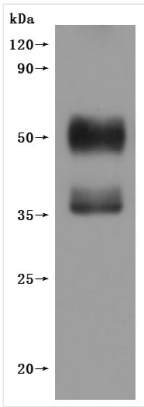
PRODUCT SPECIFICATIONS

Host	Mammalian cell
Purity/Purification	The purity information is not available for VLPs proteins.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4
Sequence Positions	1-352aa; Full Length
Sequence	MEGISIYTSN NYTEEMGSGD YDSMKEPCFR EENANFNKIF LPTIYSIIFL TGIVGNGLVI LVMGYQKKLR SMTDKYRLHL SVADLLFVIT LPFWAVDAVA NWYFGNFLCK AVHVIYTVNL YSSVLILAFI SLDRYLAIVH ATNSQRPRLK LAEKVVYVGV WIPALLLTIP DFIFANVSEA DDRYICDRFY PNDLWVVVFQ FQHIMVGLIL PGVILSCYC IIISKLSHSK GHQKRKALKT TVILILAFFA CWPYYIGIS IDSFILLEII KQGEFENTV HKWISITEAL AFFHCCLNPI LYAFLGAKFK TSAQHALTSV SRGSSLKILS KGKRGGHSSV STESESSSFH SS
Species	Homo sapiens (Human)
Tag	C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions)
Research Area	Cancer Less than 1.0 EU/ug as determined by LAL method.
Transmembrane Domain	7TM
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human CXCR4 at 10 ug/mL can bind Anti-CXCR4 recombinant antibody, the EC50 is 101.7-253.6 ng/mL.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot for long-term storage at -80 degree C. Solubilize for 60 minutes at room temperature with occasional gentle mixing. Avoid vigorous shaking or vortexing. The VLPs are expressed from human 293 cells (HEK293). Mix the sample gently by repeatedly pipetting it up and down. Do not vortex. Repeated freezing and thawing is not recommended. Store the protein at -20 degree C/-80 degree C upon receiving it, and ensure to avoid repeated freezing and thawing, otherwise, it will affect the protein activity. The immunization strategy should be optimized (antigen dose, regimen and adjuvant).



Bioactivity

Activity Measured by its binding ability in a functional ELISA. Immobilized Human CXCR4 at 10 ug/ml can bind Anti-CXCR4 recombinant antibody, the EC50 is 101.7-253.6 ng/mL.



Application Data
is detected by Mouse anti-6*His monoclonal antibody.

ADDITIONAL INFORMATION

Related Product Information for CXCR4 recombinant protein	Receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by increasing intracellular calcium ion levels and enhancing MAPK1/MAPK3 activation. Involved in the AKT signaling cascade. Plays a role in regulation of cell migration, e.g. during wound healing. Acts as a receptor for extracellular ubiquitin; leading to enhanced intracellular calcium ions and reduced cellular cAMP levels. Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes. Involved in hematopoiesis and in cardiac ventricular septum formation. Also plays an essential role in vascularization of the gastrointestinal tract, probably by regulating vascular branching and/or remodeling processes in endothelial cells. Involved in cerebellar development. In the CNS, could mediate hippocampal-neuron survival.(Microbial infection) Acts as a coreceptor (CD4 being the primary receptor) for human immunodeficiency virus-1/HIV-1 X4 isolates and as a primary receptor for some HIV-2 isolates. Promotes Env-mediated fusion of the virus.
Product Categories/Family for CXCR4 recombinant protein	MP-VLP Transmembrane Protein & Active Protein & In Stock Protein
References	"RING finger protein 113A regulates C-X-C chemokine receptor type 4 stability and signaling."Lear T., Dunn S.R., McKelvey A.C., Mir A., Evankovich J., Chen B.B., Liu Y.Am. J. Physiol. 313:C584-C592(2017)

NCBI AND UNIPROT INFORMATION

NCBI GI #	56790927
NCBI GeneID	7852
NCBI Accession #	NP_001008540.1
NCBI GenBank Nucleotide #	NM_001008540.1
UniProt Accession #	P61073; O60835; P30991; P56438; Q53S69; Q9BXA0; Q9UKN2; B2R5N0
Molecular Weight	39,746 Da
NCBI Official Full Name	C-X-C chemokine receptor type 4 isoform a
NCBI Official Synonym Full Names	chemokine (C-X-C motif) receptor 4
NCBI Official Symbol	CXCR4
NCBI Official Synonym Symbols	FB22; HM89; LAP3; LCR1; NPYR; WHIM; CD184; LESTR; NPY3R; NPYRL; HSY3RR; NPYY3R; D2S201E
NCBI Protein Information	C-X-C chemokine receptor type 4; fusin; 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-seg
UniProt Protein Name	C-X-C chemokine receptor type 4

UniProt Gene Name	CXCR4
UniProt Synonym Gene Names	CXC-R4; CXCR-4; LESTR
UniProt Entry Name	CXCR4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/cxcr4-recombinant-protein-mammalian/279269>