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Datasheet for ABIN7199192
CXCR4 Protein-VLP

Overview

Quantity:	100 µg
Target:	CXCR4
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	VLP

Product Details

Purpose:	Human CXCR4 / CD184 Full Length Protein-VLP (HEK293)
Sequence:	Met 1 - Ser 352
Characteristics:	Human CXCR4 Full Length Protein-VLP (CX4-H5219) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ser 352 (Accession # P61073-1).
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CXCR4
Alternative Name:	CXCR4 / CD184 (CXCR4 Products)
Background:	Synonyms: CXCR4,CD184,Fusin,D2S201E,FB22,HM89,HSY3RR,LAP3,LCR1,LESTR,NPY3R,NPYR,NPYRL,NPYY3R,WHIM, Description: C-X-C chemokine receptor type 4 is also known as fusin or CD184 (cluster of differentiation 184), CXCR4, CD184, D2S201E, FB22, HM89, HSY3RR, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NPYY3R or WHIM. CXCR-4 is an alpha-chemokine receptor specific for stromal-derived-factor-1 (SDF-1 also called

Target Details

CXCL12), a molecule endowed with potent chemotactic activity for lymphocytes. This receptor is one of several chemokine receptors that HIV isolates can use to infect CD4+ T cells. HIV isolates that use CXCR4 are traditionally known as T-cell tropic isolates. Typically, these viruses are found late in infection. It is unclear as to whether the emergence of CXCR4 using HIV is a consequence or a cause of immunodeficiency. CXCR4 is upregulated during the implantation window in natural and hormone replacement therapy cycles in the endometrium, producing, in presence of a human blastocyst, a surface polarization of the CXCR4 receptors suggesting that this receptor is implicated in the adhesion phase of human implantation. SDF-1 and CXCR4 were believed to be a relatively "monogamous" ligand-receptor pair (other chemokines tend to use several different chemokine receptors in a fairly "promiscuous" manner). Recent evidence demonstrates ubiquitin is also a natural ligand of CXCR4. Chronic exposure to THC increased T lymphocyte CXCR4 expression on both CD4+ and CD8+ T lymphocytes. Drugs that block the CXCR4 receptor appear to be capable of "mobilizing" hematopoietic stem cells into the bloodstream as peripheral blood stem cells.

Molecular Weight: 41.6 kDa

NCBI Accession: [NP_003458](#)

Pathways: [Regulation of Cell Size, CXCR4-mediated Signaling Events](#)

Application Details

Application Notes: The protein has a calculated MW of 41.6 kDa.

Comment: Virus-like particles (VLPs) are formed by self-assembly of envelop/capsid proteins from viruses. Membrane Proteins can be constituted in-situ with VLPs produced from HEK293 cell cultures. These VLPs concentrate conformationally intact membrane proteins directly on the cell surface and produce soluble, high-concentration proteins perfect for immunization and antibody screening.

The VLPs provide the display of properly folded membrane proteins in their native cellular membrane in a compact size of 100~300 nm diameter (similar to the size of most viruses) making it optimal targets for dendritic cells in vivo and surface attachment for phage display.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS, pH 7.4

Handling

Storage: -80 °C

Storage Comment: -70°C