

# Human CXCR4 Full Length Protein, Flag,His Tag (Detergent)

Catalog # CX4-H52D3



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

CXCR4,CD184,Fusin,D2S201E,FB22,HM89,HSY3RR,LAP3,LCR1,LESTR,NPY3R,NPYR,NPYRL,NPYY3R,WHIM

## Source

Human CXCR4 Full Length Protein, Flag,His Tag(CX4-H52D3) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Ser 352 (Accession # [P61073-1](#)).

Predicted N-terminus: Asp

## Molecular Characterization



This protein carries flag tag at the N-terminus and polyhistidine tag at the C-terminus.

The protein has a calculated MW of 58.4 kDa.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## Formulation

*This product is not suitable for cell based experiments due to cytotoxicity of detergent.*

*Detergent buffer is INDISPENSABLE to keep membrane protein soluble and active, under no circumstance should you remove detergent.*

*Detergent buffer is sold separately and not included in protein, and please contact us if you need the buffer.*

*If glycerol is not compatible to your application, remove glycerol just before immediate experiment, and NEVER store glycerol-free protein solution.*

Supplied as 0.2  $\mu$ m filtered solution in 50 mM HEPES, 150 mM NaCl, CHS, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

## Shipping

*This product is supplied and shipped with dry ice, please inquire the shipping cost.*

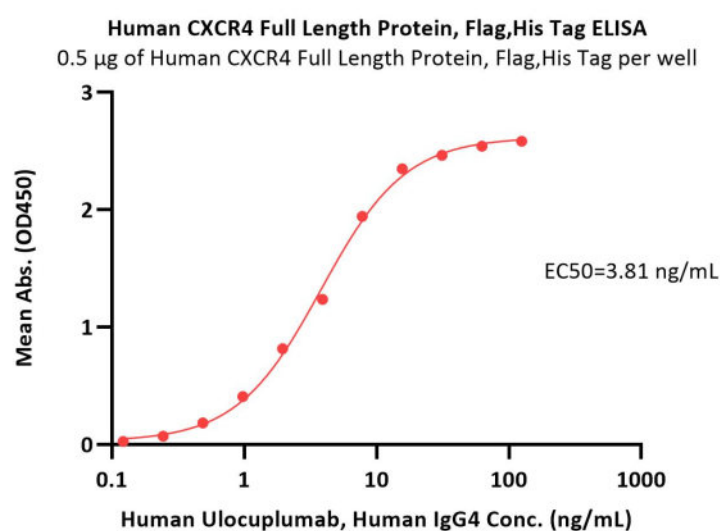
## Storage

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- The product MUST be stored at  $-70^{\circ}\text{C}$  or lower upon receipt;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions.

## Bioactivity-ELISA



Immobilized Human CXCR4 Full Length Protein, Flag,His Tag (Cat. No.

CX4-H52D3) at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind

Human Ulocuplumab, Human IgG4 with a linear range of 0.1-16 ng/mL (QC tested).

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## Background

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 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.

## Clinical and Translational Updates

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