

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

Catalog # CX4-H52D3



BIOSYSTEMS  
**Acro**

## Application

- Elisa
- SPR/BLI
- Immunization

## Synonym

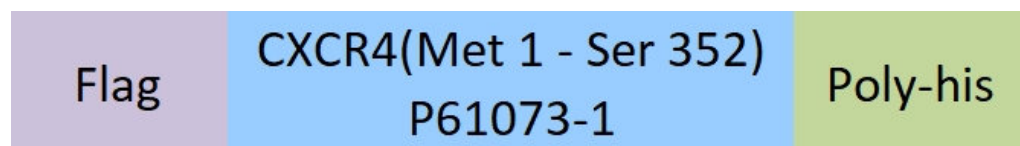
CXCR4, CD184, Fusin, D2S201E, FB22, HM89, HSY3RR, LAP3, LCR1, LESTR, NPY3R, NPYR, NPYRL, NPYY3R, WHIM

## 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

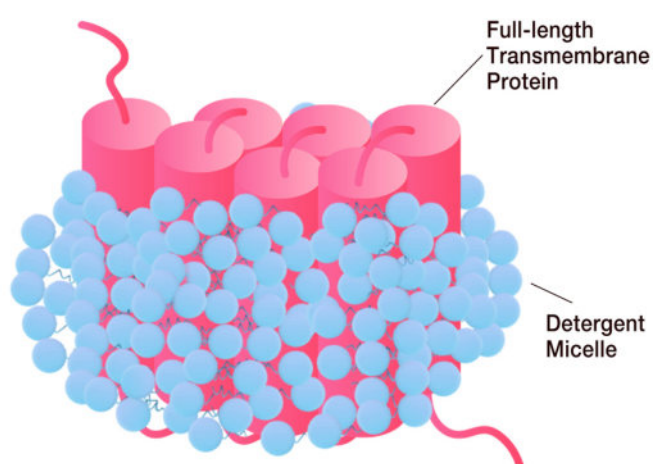
## Molecular Characterization



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

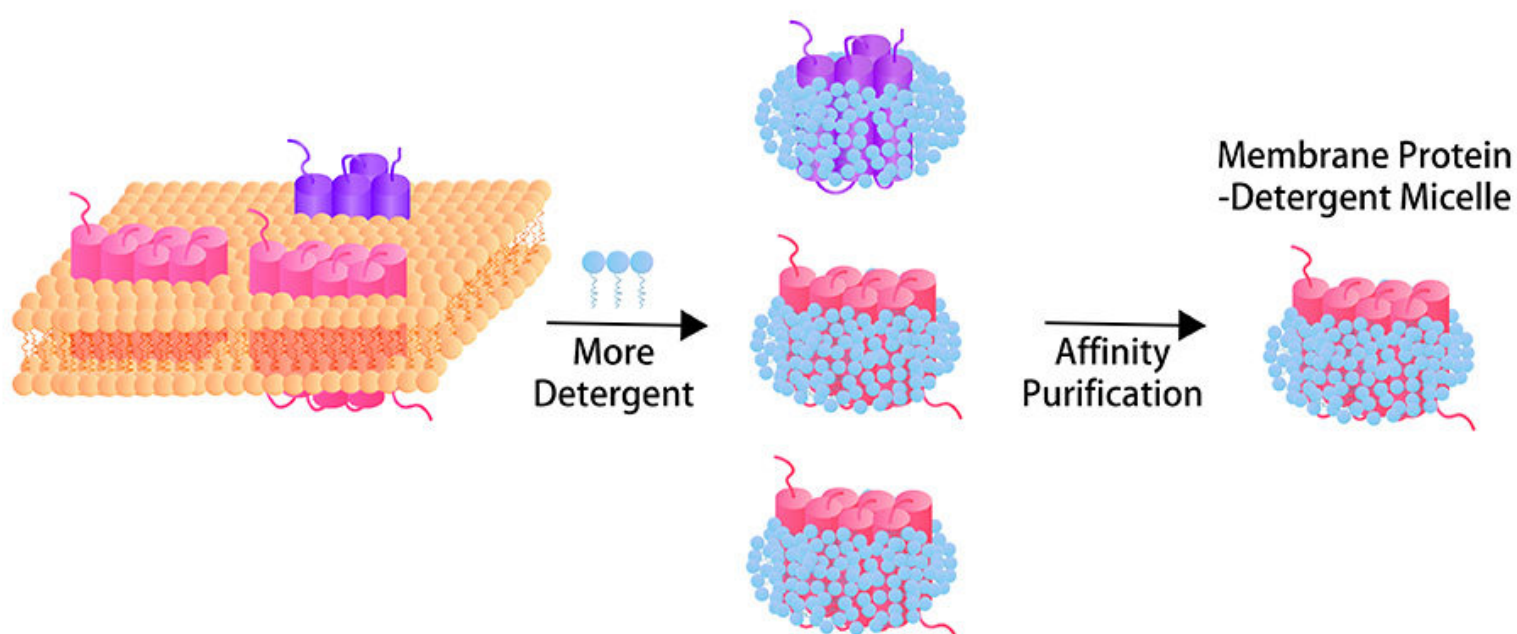
The protein has a calculated MW of 58.4 kDa.

### • Structure



Each full-length transmembrane protein is wrapped by detergent micelle.

### • Synthesis Process



Detergent micelle extraction, combined with subsequent detergent treatment and affinity purification, preserves the native fold of the full-length membrane protein in vitro, ensuring **high purity** and enabling **accurate quantification**.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC 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 circumstances 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 with your application, remove glycerol just before the immediate experiment, and **NEVER** store glycerol-free protein solution.

Supplied as 0.2  $\mu$ m filtered solution in 50 mM HEPES, 150 mM NaCl, Buffer B, 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:

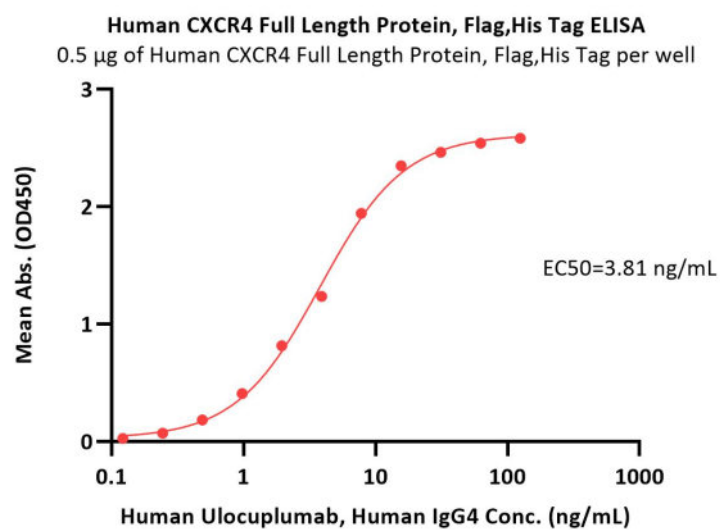
- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

## ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

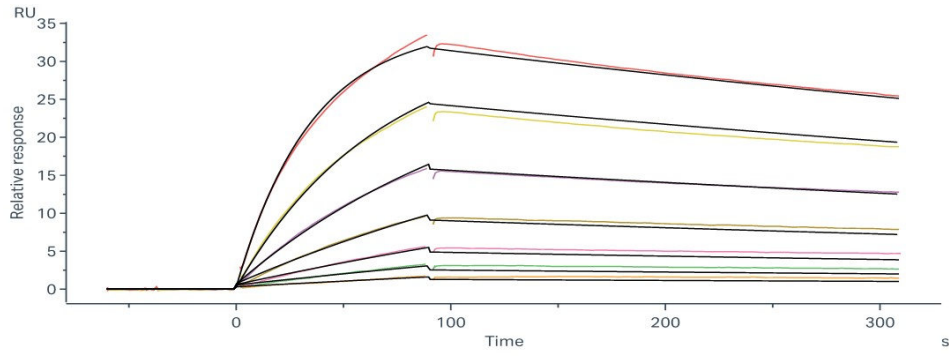
\*The detergent Buffer B (Cat. No. [LG-13](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

## 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).

## Bioactivity-SPR



Human Ulocuplumab, Human IgG4 captured on Protein A Chip can bind Human CXCR4 Full Length Protein, Flag,His Tag (Cat. No. CX4-H52D3) with an affinity constant of 9.67 nM as determined in a SPR assay (inpresence of LG-13) (Biacore 8K) (Routinely tested).

## Background

A chemokine receptor with pleiotropic roles in hematopoietic stem cell homing to bone marrow and cancer metastasis. The CXCL12/CXCR4 axis is a key retention signal for stem cells and malignant plasma cells. Antagonists (plerixafor) are standard-of-care for stem cell mobilization and are being developed for solid tumor therapy.

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