

# Human CCR2 Full Length Protein (VLP)

Catalog # CC2-H52P3



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## Synonym

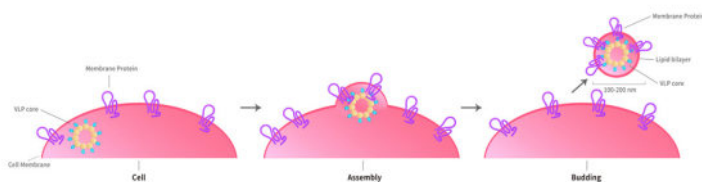
C-C chemokine receptor type 2, C-C CKR-2, CC-CKR-2, CC-CKR-2CKR2B, CCR2, CCR-2, CCR2A, CCR2B, CD192 antigen, CD192, chemokine (C-C motif) receptor 2, CKR2, CKR2A, CMKBR2, CMKBR2MGC111760, FLJ78302, MCP-1 receptor, MCP-1-R, MCP-1-RMGC103828, MGC168006, Monocyte chemoattractant protein 1 receptor, monocyte chemotactic protein 1 receptor

## Source

Human CCR2 Full Length Protein (VLP)(CC2-H52P3) is expressed from human 293 cells (HEK293). It contains AA Met 1 - Leu 360 (Accession # [P41597-2](#)). Predicted N-terminus: Met 1

## Molecular Characterization

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.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

\*The isotype control of empty/mock VLP (Cat. No. [VLP-N5213](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

## Formulation

*The VLPs are highly immunogenic, so the immunization strategy should be optimized (antigen dose, regimen and adjuvant).*

Supplied as 0.2 µm filtered solution in PBS, pH7.4 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.*

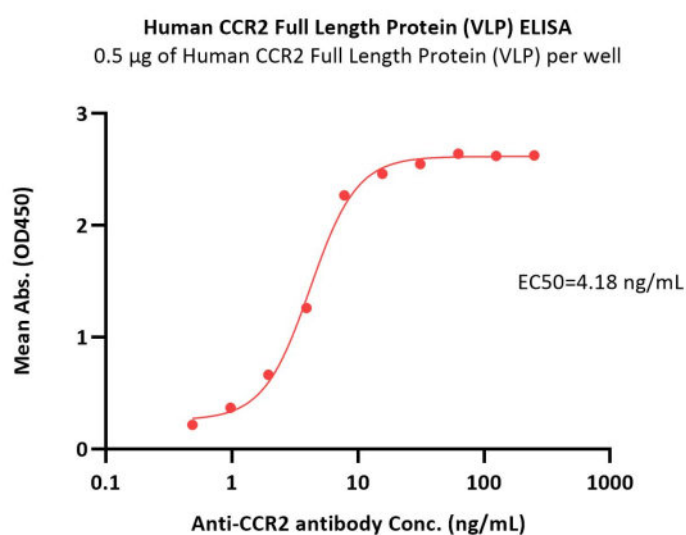
## Storage

*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 12 months under sterile conditions.

## Bioactivity-ELISA



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2/11/2025

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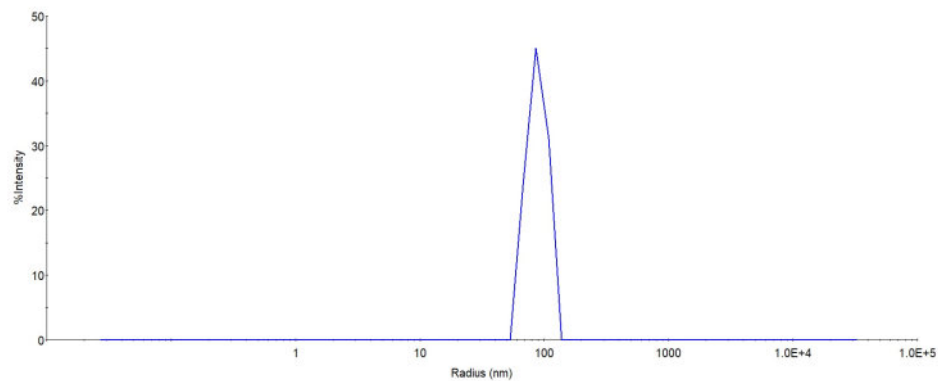
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Surprise Inside!

Immobilized Human CCR2 Full Length Protein (VLP) (Cat. No. CC2-H52P3) at 5 µg/mL (100 µL/well) can bind Anti-CCR2 antibody with a linear range of 0.5-8 ng/mL (QC tested).

## Identity-DLS



The mean peak Radius of VLP is 80-120 with more than 95% intensity as determined by dynamic light scattering (DLS).

## Background

The protein encoded by this gene is a receptor for monocyte chemoattractant protein-1, a chemokine which specifically mediates monocyte chemotaxis. Monocyte chemoattractant protein-1 is involved in monocyte infiltration in inflammatory diseases such as rheumatoid arthritis as well as in the inflammatory response against tumors. The encoded protein mediates agonist-dependent calcium mobilization and inhibition of adenylyl cyclase. This protein can also be a coreceptor with CD4 for HIV-1 infection. This gene is located in the chemokine receptor gene cluster region of chromosome 3.

## Clinical and Translational Updates

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