

# Fluorescent Human CCR5 Full Length Protein (VLP)

Catalog # CC5-H52P5



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

CCR5,CMKBR5,CD195,CC-CKR-5,CHEMR13

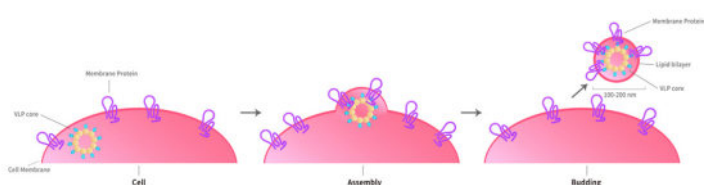
## Source

Fluorescent Human CCR5 Full Length Protein (VLP)(CC5-H52P5) is expressed from human 293 cells (HEK293).

## Molecular Characterization

This protein carries a GFP tag.

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.

## Conjugate

GFP

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 530 nm

## Endotoxin

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

## Formulation

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

Supplied as 0.2  $\mu$ m filtered solution in PBS, Arginine, pH7.4 with trehalose 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 protect from light and 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 12 months under sterile conditions.

\*The isotype control of empty/mock VLP (Cat. No. [VLP-NF2P4](#)) is sold separately and not included in protein, you can follow [this link](#) for product information.

## Bioactivity-ELISA

Discounts, Gifts,  
and more!

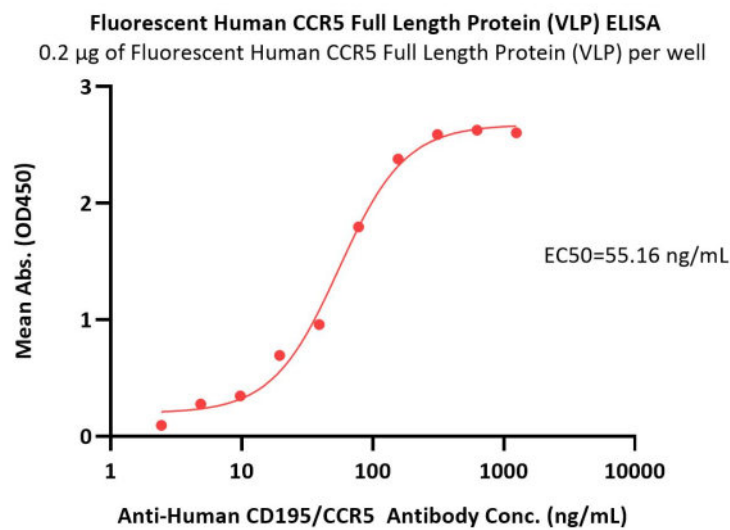


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12/26/2023

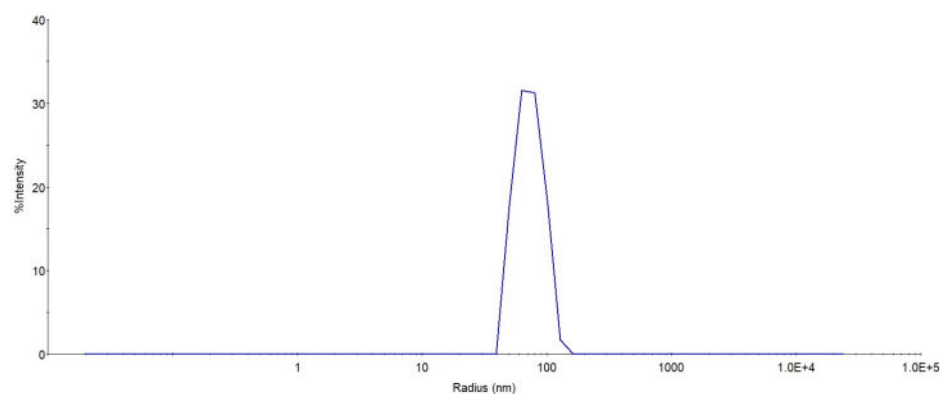
# Fluorescent Human CCR5 Full Length Protein (VLP)

Catalog # CC5-H52P5



Immobilized Fluorescent Human CCR5 Full Length Protein (VLP) (Cat. No. CC5-H52P5) at 2 µg/mL (100 µL/well) can bind Anti-Human CD195/CCR5 Antibody with a linear range of 2-78 ng/mL (QC tested).

## Identity-DLS



The mean peak Radius of VLP is 60-80 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

## Background

Receptor for a number of inflammatory CC-chemokines including CCL3/MIP-1-alpha, CCL4/MIP-1-beta and RANTES and subsequently transduces a signal by increasing the intracellular calcium ion level. May play a role in the control of granulocytic lineage proliferation or differentiation.<sup>5</sup> Publications (Microbial infection) Acts as a coreceptor (CD4 being the primary receptor) of human immunodeficiency virus-1/HIV-1.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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