

Human CX3CR1 Full Length Protein (VLP)

Catalog # CX1-H52P3



BIO SYSTEMS
Acro

Application

- Immunization
- Cell based assay (FACS or functional assay)
- Screening ([ELISA](#))

Synonym

CX3CR1

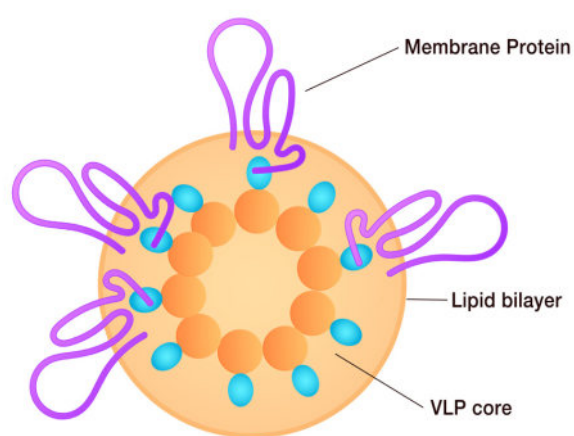
Source

Human CX3CR1 Full Length Protein (VLP) (CX1-H52P3) is expressed from human 293 cells (HEK293). It contains AA Asp 2 - Leu 355 (Accession # [P49238](#)).

Predicted N-terminus: Asp

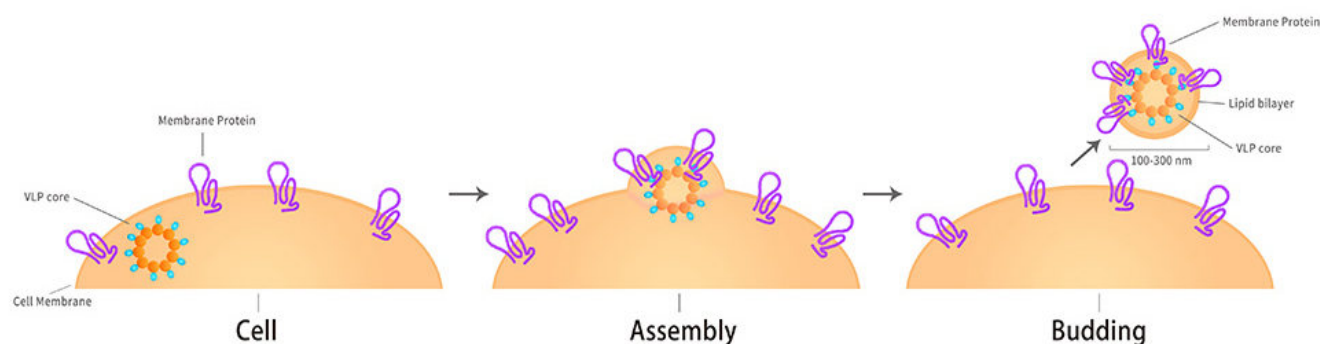
Molecular Characterization

- Structure



Virus-like particles (VLPs) are protein particles that mimic the shape of viruses but lack a viral genome, and incorporating transmembrane proteins on the external surface.

- Synthesis Process



Envelope virus-like particles (eVLPs) are produced by **co-expressing target membrane proteins with viral structural proteins in mammalian cells**, enabling native embedding of membrane proteins into the lipid bilayer during VLP budding. This approach preserves authentic conformation, post-translational modifications, and orientation, while creating a completely detergent-free environment with repetitive multivalent display and **strong immunogenicity** making them ideal for immunization, binding assays in antibody discovery and screening (ELISA), and cell-based assays such as FACS, etc.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

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, 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 avoid repeated freeze-thaw cycles.

This product is stable after storage at:

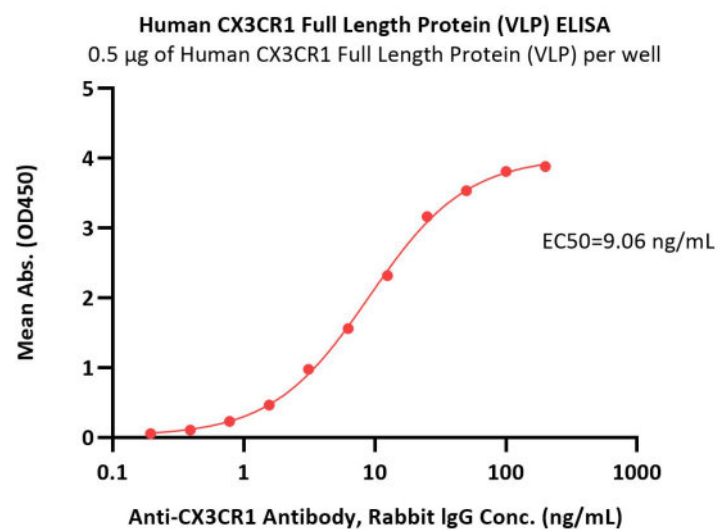
- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

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

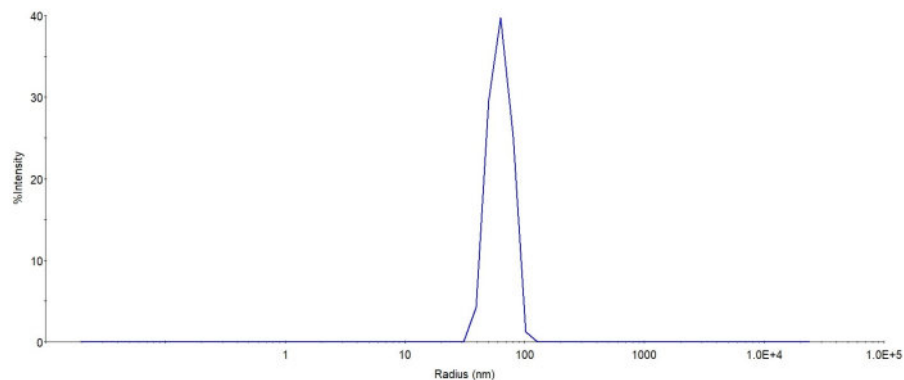
*The isotype control of empty/mock VLP (Cat. No. [VLP-N5213](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

Bioactivity-ELISA



Immobilized Human CX3CR1 Full Length Protein (VLP) (Cat. No. CX1-H52P3) at 5 µg/mL (100 µL/well) can bind Anti-CX3CR1 Antibody, Rabbit IgG with a linear range of 0.2-13 ng/mL (QC tested).

Identity-DLS



The mean peak Radius of VLP is 50-70 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

Background

CX3CR1 is the specific receptor for the chemokine fractalkine (CX3CL1), playing a dual role in immune surveillance. It mediates both adhesion and migration of cytotoxic lymphocytes, such as NK and CD8+ T cells. In cancer, high CX3CR1 expression often correlates with improved anti-tumor immunity. It is also a key therapeutic target in inflammatory diseases, where blocking it can reduce pathological immune infiltration .

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