

Human CXCR2 Full Length Protein (VLP)

Catalog # CX2-H52P4



BIOSYSTEMS
Acro

Application

- Immunization
- FACS
- Elisa

Synonym

CD182, CDw128b, CMKAR2, IL8R2, IL8RA, IL8RB, CXCR2, CXC-R2, CXCR-2, GRO, MGSA receptor, IL-8R B

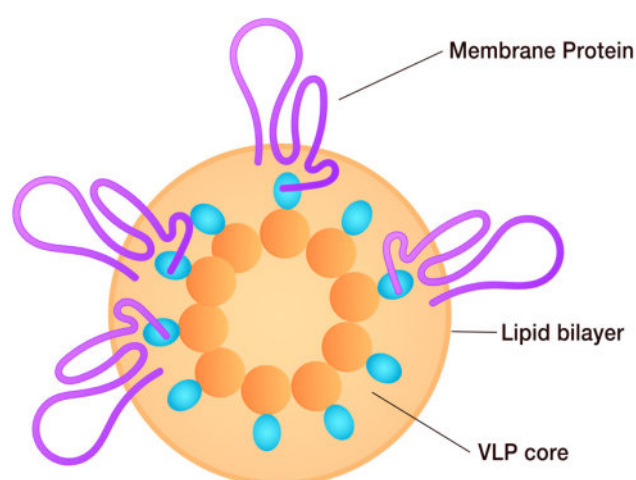
Source

Human CXCR2 Full Length Protein (VLP) (CX2-H52P4) is expressed from human 293 cells (HEK293). It contains AA Glu 2 - Leu 360 (Accession # [NP_001548.1](#)).

Predicted N-terminus: Asp

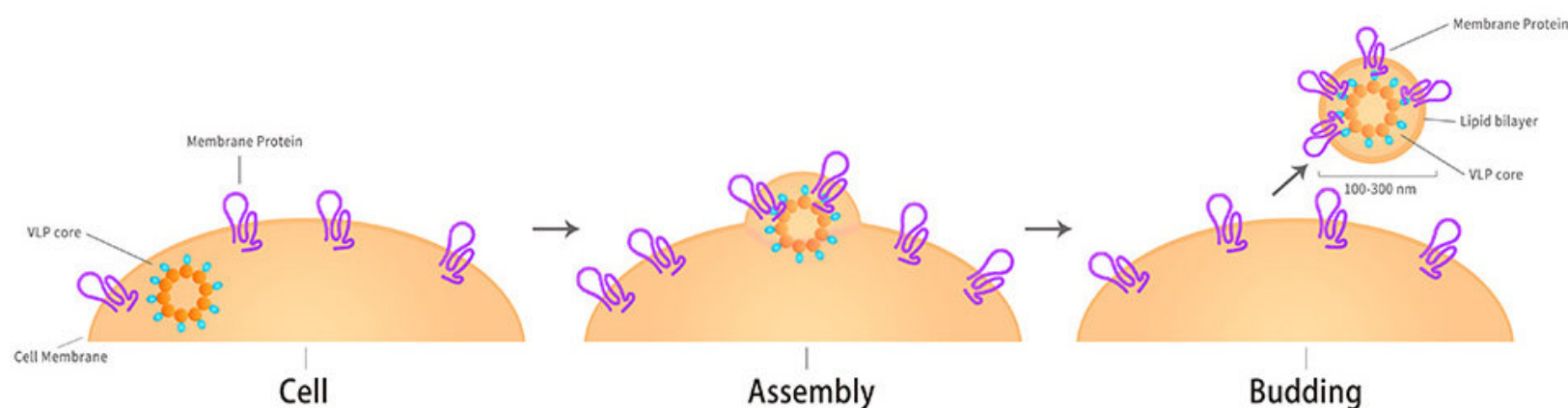
Molecular Characterization

- 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



Virus-like particles (VLPs) are non-infectious structures that mimic the shape of viruses but lack a viral genome. During VLP production in cell systems, VLPs self-assemble into 100-200 nm protein particles, and incorporate transmembrane proteins into a VLP-MP complex, resulting in presentation of the protein on the external surface of the VLP. Their repetitive, multivalent surface display and **strong immunogenicity**, making them an excellent candidate for immunization.

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:

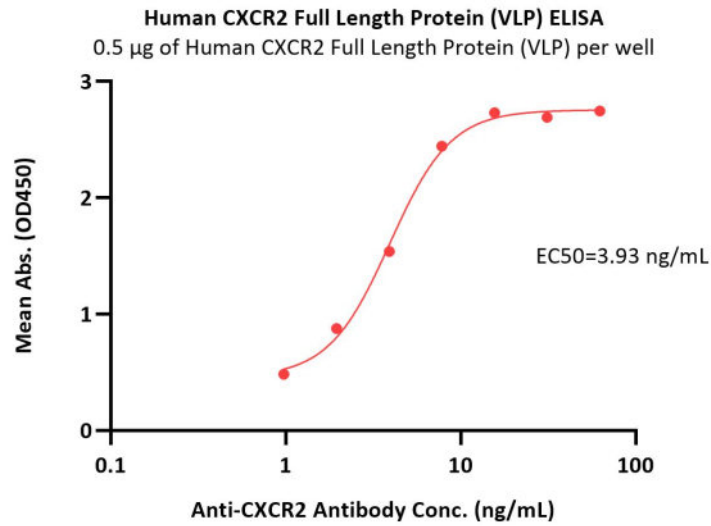
- The product **MUST** be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

ACRO Quality Management System

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

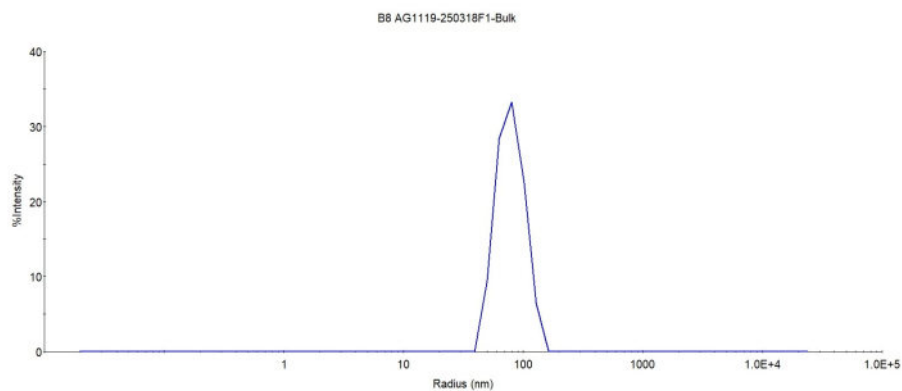
*The isotype control of empty/mock VLP (Cat. No. [VLP-N5213](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

Bioactivity-ELISA



Immobilized Human CXCR2 Full Length Protein (VLP) (Cat. No. CX2-H52P4) at 5 µg/mL (100 µL/well) can bind Anti-CXCR2 Antibody with a linear range of 1-8 ng/mL (QC tested).

Identity-DLS



The mean peak Radius of VLP is 70-90 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

Background

CXCR2 is a chemokine receptor mediating neutrophil recruitment and angiogenesis via ELR+ CXC chemokines (IL-8). It is a central driver of tumor-promoting inflammation and myeloid-derived suppressor cell (MDSC) accumulation. CXCR2 antagonists aim to remodel the tumor immune microenvironment and enhance checkpoint inhibitor efficacy.



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