

Fluorescent Human CCR9 Full Length Protein (VLP)

Catalog # CC9-HF2G3



BIOSYSTEMS
Acro

Application

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

Synonyms

C-C motif chemokine receptor 9, GPR28, CDw199, GPR-9-6, CC-CKR-9

Source

Fluorescent Human CCR9 Full Length Protein (VLP) (CC9-HF2G3) is expressed from human 293 cells (HEK293). It contains AA Thr 2 - Leu 369 (Accession # [P51686-1](#)).

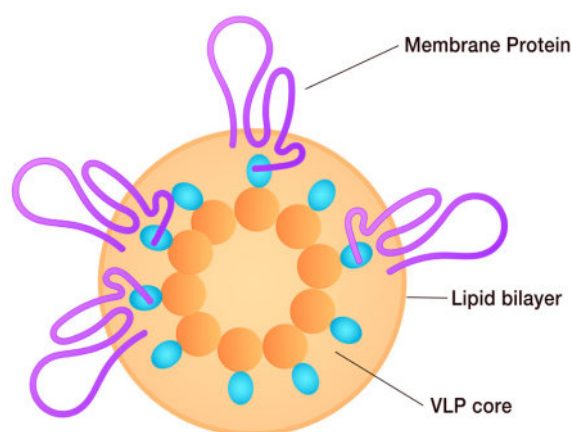
Predicted N-terminus: Asp

Molecular Characterization

This protein carries a GFP tag.

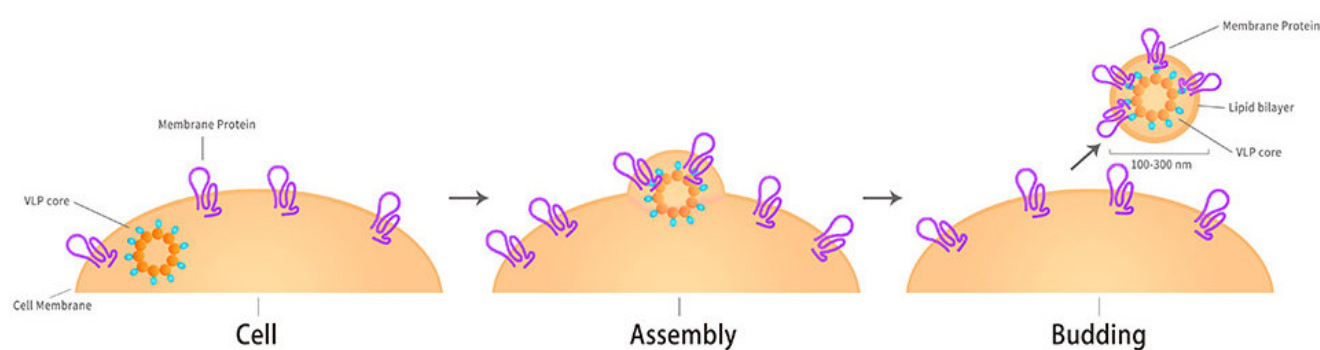
*The isotype control of empty/mock VLP (Cat. No. [VLP-NF2P4](#)) is sold separately and not included in protein, you can follow [the link](#) for product information.

• 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.

Conjugate

GFP

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

Excitation Wavelength: 488 nm

Emission Wavelength: 530 nm

Formulation

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

Supplied as 0.2 μ m filtered solution in PBS, Arginine, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Shipping and Storage

This product is supplied and shipped on dry ice.

Please protect from light and avoid repeated freeze-thaw cycles.

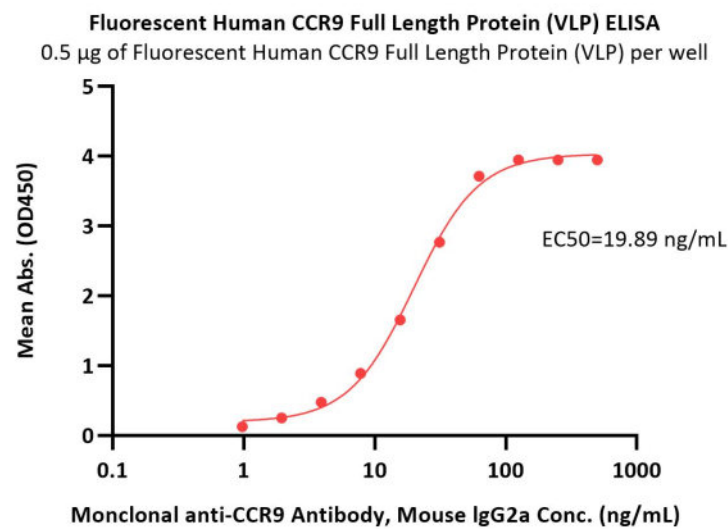
This product is stable after storage at:

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

ACRO Quality Management System

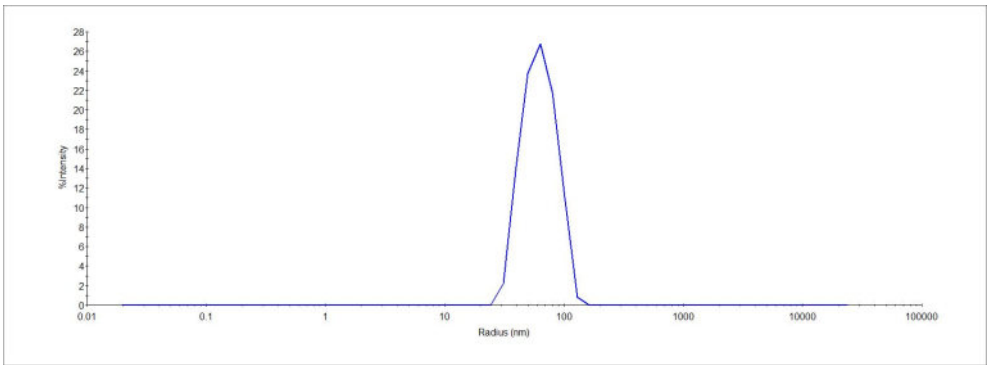
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

Bioactivity-ELISA



Immobilized Fluorescent Human CCR9 Full Length Protein (VLP) (Cat. No. CC9-HF2G3) at 5 µg/mL (100 µL/well) can bind Monoclonal anti-CCR9 Antibody, Mouse IgG2a with a linear range of 1-31 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

CCR9 is a chemokine receptor that directs lymphocyte trafficking to the intestine via its ligand CCL25. It plays a critical role in gut immune homeostasis and inflammatory bowel disease. Overexpression in various cancers, particularly T-cell acute lymphoblastic leukemia and gastrointestinal tumors, positions CCR9 as a promising therapeutic target.

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