

Human CD9 Full Length Protein (VLP)

Catalog # CD9-H52P3



Synonym

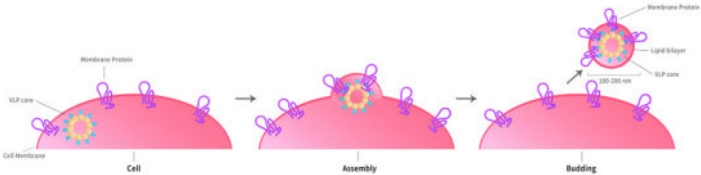
CD9,MIC3,TSPAN29,GIG2,MRP1,BTCC1,DRAP27,5H9

Source

Human CD9 Full Length Protein (VLP)(CD9-H52P3) is expressed from human 293 cells (HEK293). It contains AA Pro 2 - Val 228 (Accession # [P21926](#)).
Predicted N-terminus: Met

Molecular Characterization

Virus-like particles(VLPs) are formed by self-assembly of 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 / rFC 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.

Purity

>95% as determined by SEC-HPLC.

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

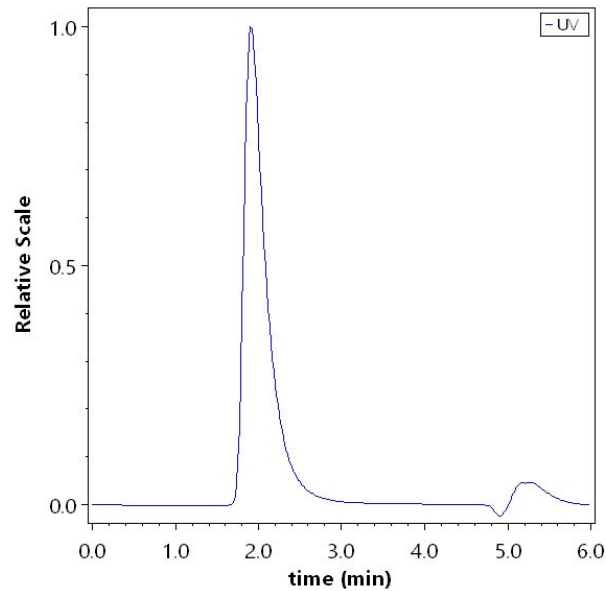
This product is supplied and shipped with dry ice, please inquire the shipping cost.

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.

SEC-HPLC



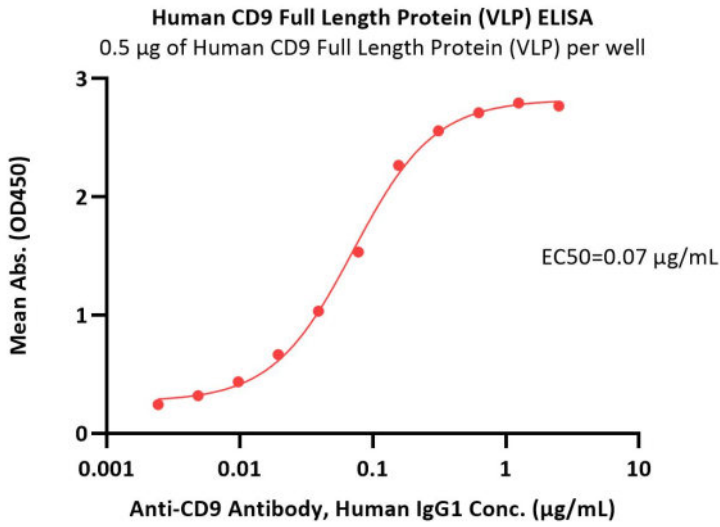
The purity of Human CD9 Full Length Protein (VLP) (Cat. No. CD9-H52P3) was greater than 95% as determined by SEC-HPLC.

Bioactivity-ELISA



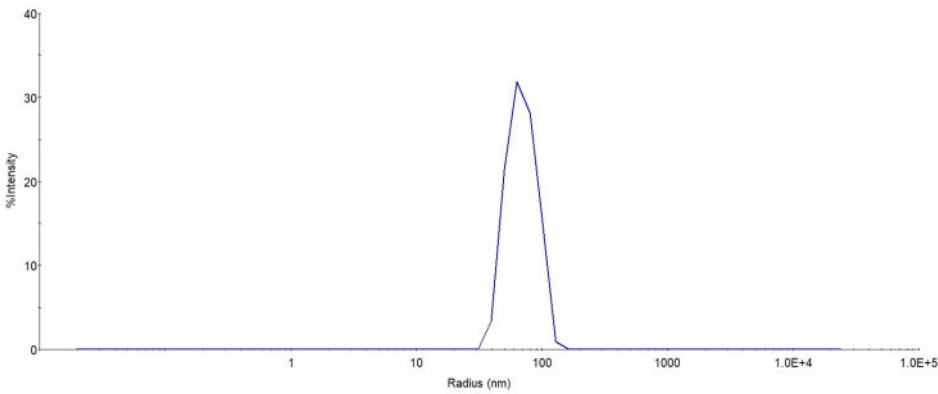
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Immobilized Human CD9 Full Length Protein (VLP) (Cat. No. CD9-H52P3) at 5 µg/mL (100 µL/well) can bind Anti-CD9 Antibody, Human IgG1 with a linear range of 0.002-0.156 µg/mL (QC tested).

Identity-DLS



The mean peak Radius of VLP is 65-85 nm with more than 95% intensity as determined by dynamic light scattering (DLS).

Background

CD9 antigen is also known as tetraspanin-29 (TSPAN29), 5H9 antigen, Leukocyte antigen MIC3 (MIC3), Motility-related protein, is a multi-pass membrane protein which belongs to the tetraspanin (TM4SF) family or the transmembrane 4 superfamily. CD9 is a cell surface glycoprotein that is known to complex with integrins and other transmembrane 4 superfamily proteins. TSPAN29 is found on the surface of exosomes. MIC3 Involved in platelet activation and aggregation, regulates paranodal junction formation and also Involved in cell adhesion, cell motility and tumor metastasis. CD9 antigen also seems to be a key part in the egg-sperm fusion during mammalian fertilization.

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and more!

