

# Human Claudin-3 Full Length Protein (VLP)

Catalog # CL3-H52P3



BIOSYSTEMS  
**Acro**

## Synonym

C7orf1, CPE-R2, CPETR2, HRVP1, RVP1

## Source

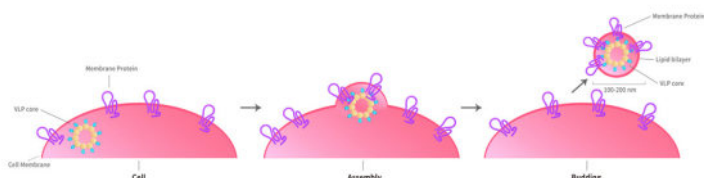
Human Claudin-3 Full Length Protein (VLP)(CL3-H52P3) is expressed from human 293 cells (HEK293). It contains AA Met 1 -Val 220 (Accession # [O15551](#)).

Predicted N-terminus: Met 1

## Molecular Characterization

The protein has a calculated MW of 40.6 kDa & 56.1 kDa.

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.

\*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.

## 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.*

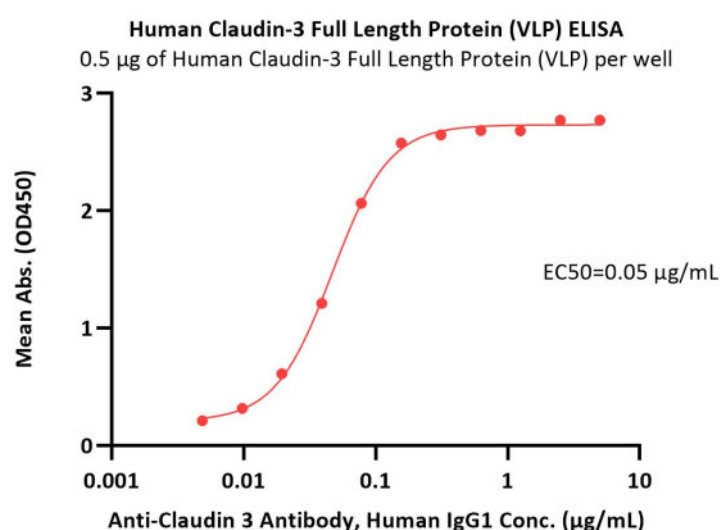
## Storage

*Please 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.

## Bioactivity-ELISA



Immobilized Human Claudin-3 Full Length Protein (VLP) (Cat. No. CL3-H52P3) at 5  $\mu$ g/mL (100  $\mu$ L/well) can bind Anti-Claudin 3 Antibody, Human IgG1 with a linear range of 0.005-0.078  $\mu$ g/mL (QC tested).

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## Background

Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space.

## Clinical and Translational Updates

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