



## Synonym

PVRL1, Nectin-1, CD111, CLPED1, ED4, HIgR, HVEC, OFC7, PRR, PRR1, PVRR, PVRR1, SK-12

## Source

Human Nectin-1, Fc Tag(PV1-H5253) is expressed from human 293 cells (HEK293). It contains AA Gln 31 - Thr 334 (Accession # [Q15223-1](#)).  
Predicted N-terminus: Gln 31

## Molecular Characterization

|  |                                 |
|--|---------------------------------|
| Nectin-1(Gln 31 - Thr 334)<br>Q15223-1 | Fc(Pro 100 - Lys 330)<br>P01857 |
|--|---------------------------------|

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 60.4 kDa. The protein migrates as 66-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

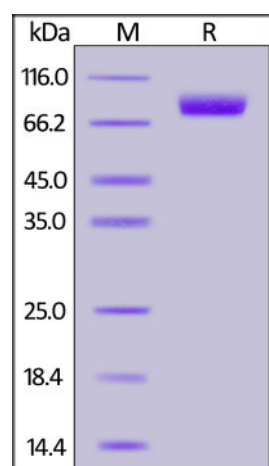
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE

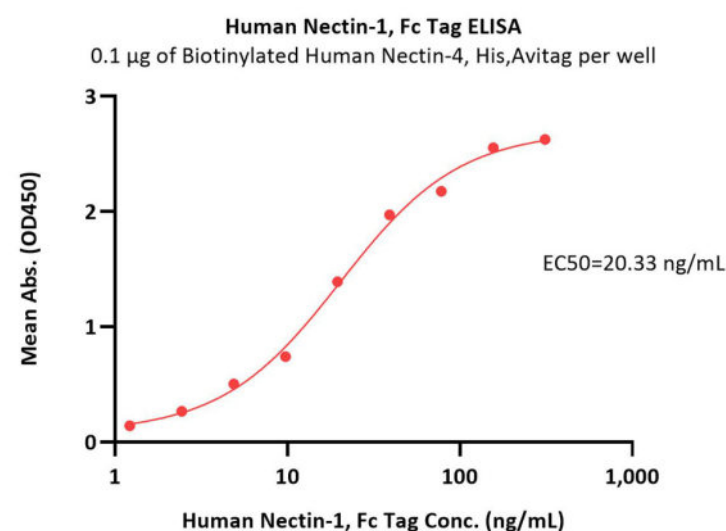
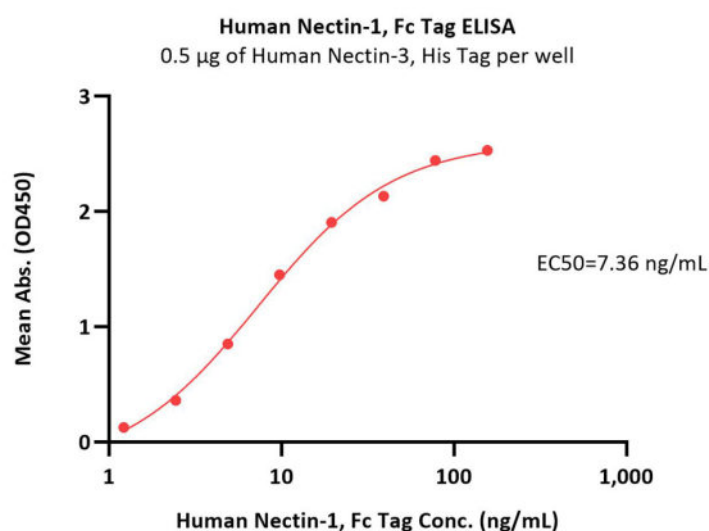


Human Nectin-1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

Discounts, Gifts,  
and more!

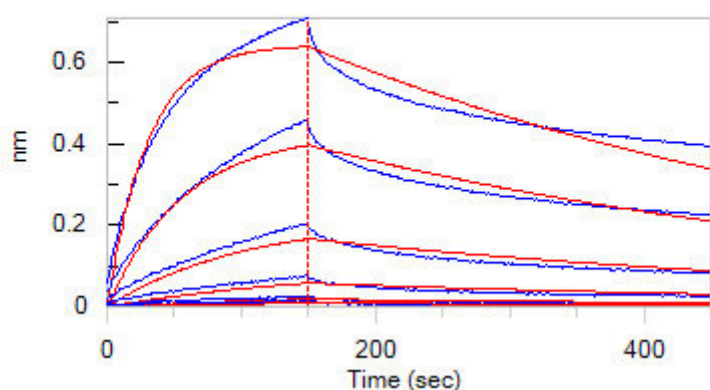




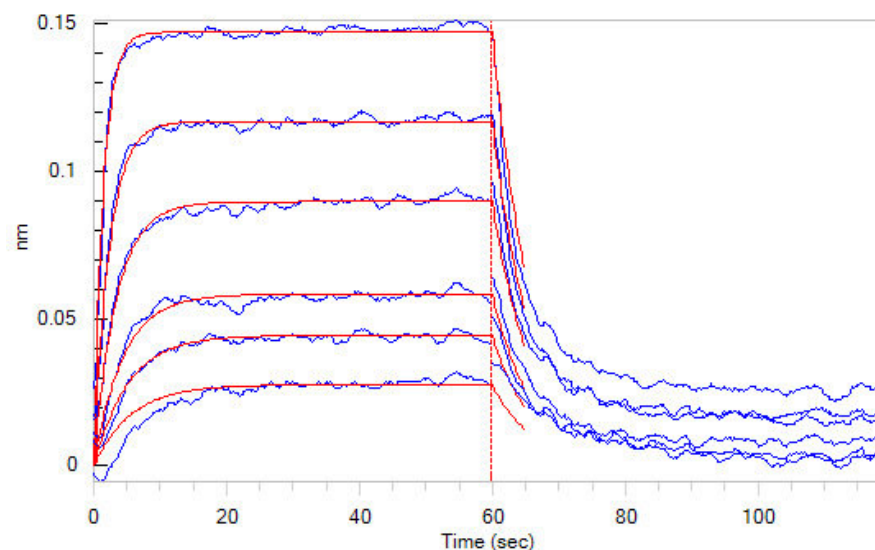
Immobilized Human Nectin-3, His Tag (Cat. No. PV3-H52E4) at 5 µg/mL (100 µL/well) can bind Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) with a linear range of 1-39 ng/mL (QC tested).

Immobilized Biotinylated Human Nectin-4, His,Avitag (Cat. No. NE4-H82E7) at 1 µg/mL (100 µL/well) on Streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate, can bind Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) with a linear range of 2-40 ng/mL (Routinely tested).

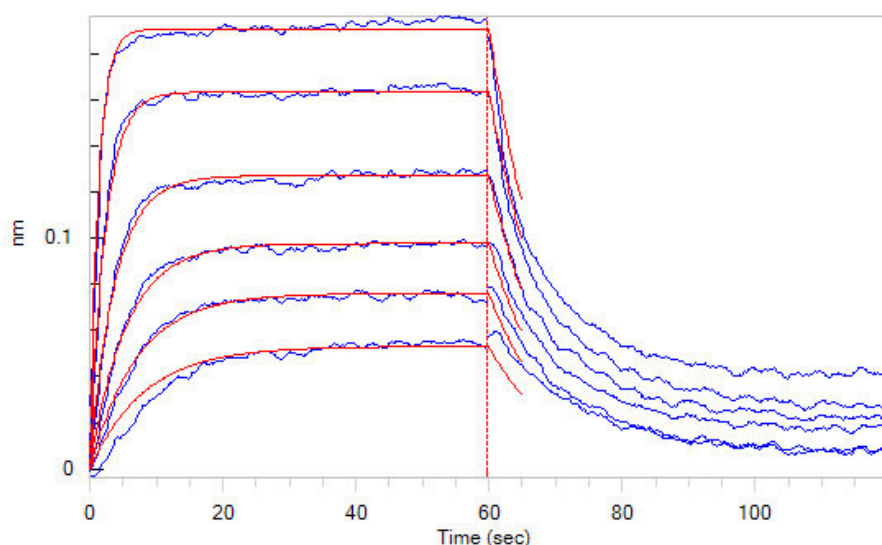
**Bioactivity-BLI**



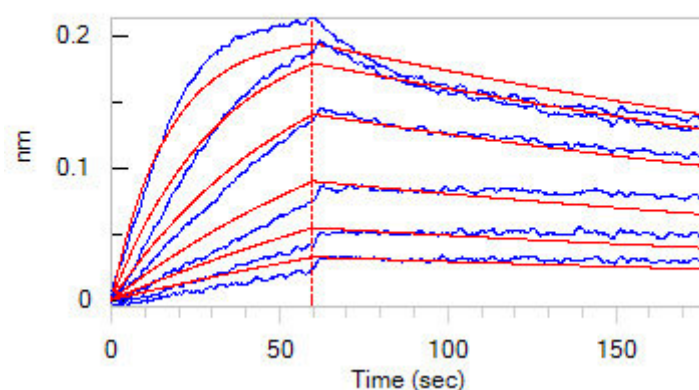
Loaded Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) on Protein A Biosensor, can bind Human Nectin-4, His Tag (Cat. No. NE4-H52H3) with an affinity constant of 0.271 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Cynomolgus Nectin-4, His Tag (Cat. No. NE4-C52H4) on HIS1K Biosensor, can bind Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) with an affinity constant of 0.23 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Mouse Nectin-4, His Tag (Cat. No. NE4-M52H3) on HIS1K Biosensor, can bind Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) with an



Loaded Human Nectin-3, His Tag (Cat. No. PV3-H52E4) on HIS1K Biosensor, can bind Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) with an affinity constant of 4.99 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Discounts, Gifts, and more!



## Human Nectin-1 / PVRL1 / CD111 Protein, Fc Tag

Catalog # PV1-H5253



BIOSYSTEMS  
**Acro**

affinity constant of 0.12  $\mu$ M as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

### Background

Poliovirus receptor-related protein 1 (PVRL1) is also known as Herpes virus entry mediator C (HveC), Herpesvirus Ig-like receptor (HIgR), Nectin-1, CD antigen CD111, PVRL1 / Nectin-1 / CD111 belongs to the nectin family. PVRL1 / Nectin-1 is a membrane protein with three extracellular immunoglobulin domains, a single transmembrane helix and a cytoplasmic tail. The protein can mediate  $Ca^{2+}$ -independent cellular adhesion further characterizing it as IgSF cell adhesion molecule (IgSF CAM). PVRL1 is adhesion molecule found in a wide range of tissues. PVRL1 / Nectin-1 promotes cell-cell contacts by forming homophilic or heterophilic trans-dimers. Heterophilic interactions have been detected between PVRL1/nectin-1 and PVRL3/nectin-3 and between PVRL1/nectin-1 and PVRL4/nectin-4.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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