

**Synonyms**

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

**Source**

Human Nectin-1, His Tag (PV1-H5223) is expressed from human 293 cells (HEK293). It contains AA Gln 31 - Thr 334 (Accession # [NP\\_002846](#)).

Predicted N-terminus: Gln 31

**Molecular Characterization**

|                                         |          |
|-----------------------------------------|----------|
| Nectin-1(Gln 31 - Thr 334)<br>NP_002846 | Poly-his |
|-----------------------------------------|----------|

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 35.0 kDa. The protein migrates as 45-60 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method / rFC method.

**Purity**

>90% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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.**

**Shipping and Storage**

This product is shipped at ambient temperature.

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

**Please avoid repeated freeze-thaw cycles.**

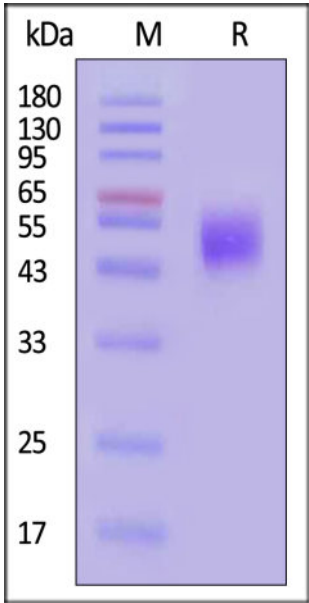
This product is stable after storage at:

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

**ACRO Quality Management System**

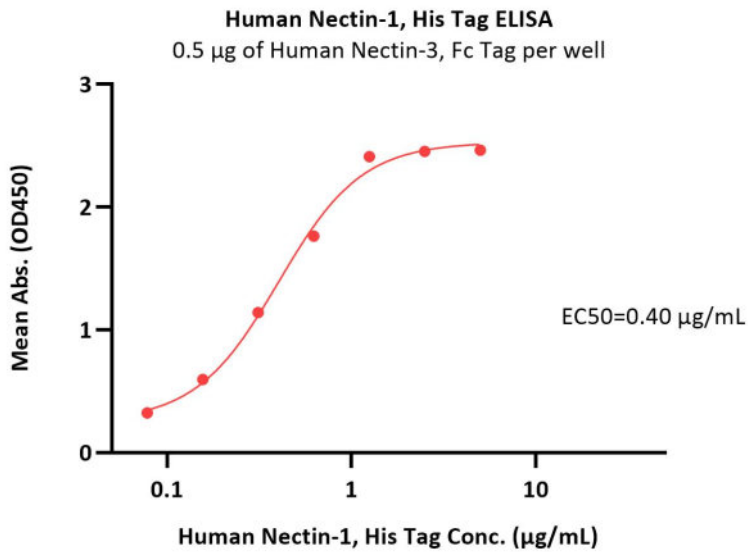
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



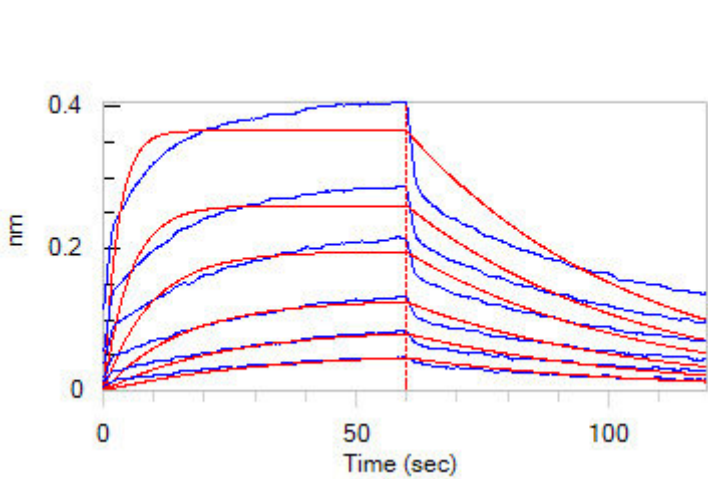
Human Nectin-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

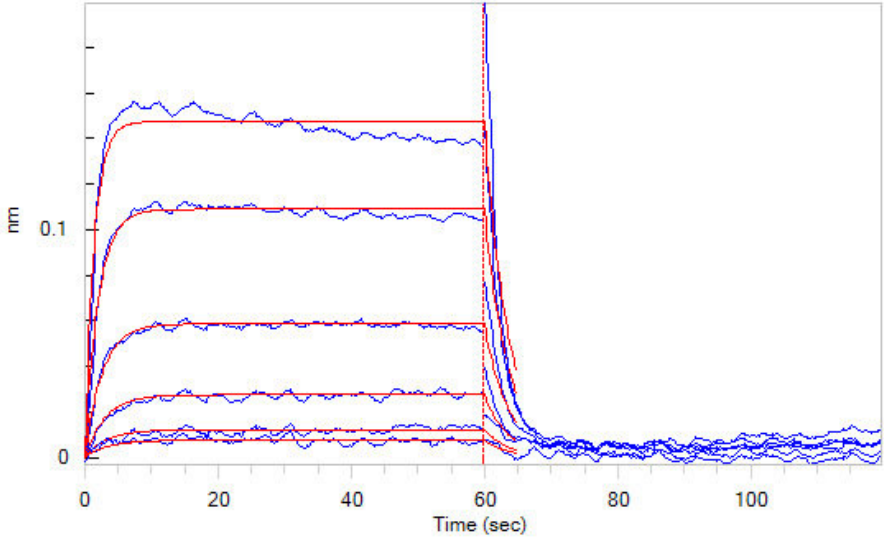


Immobilized Human Nectin-3, Fc Tag (Cat. No. PV3-H5255) at 5 µg/mL (100 µL/well) can bind Human Nectin-1, His Tag (Cat. No. PV1-H5223) with a linear range of 0.078-1.25 µg/mL (QC tested).

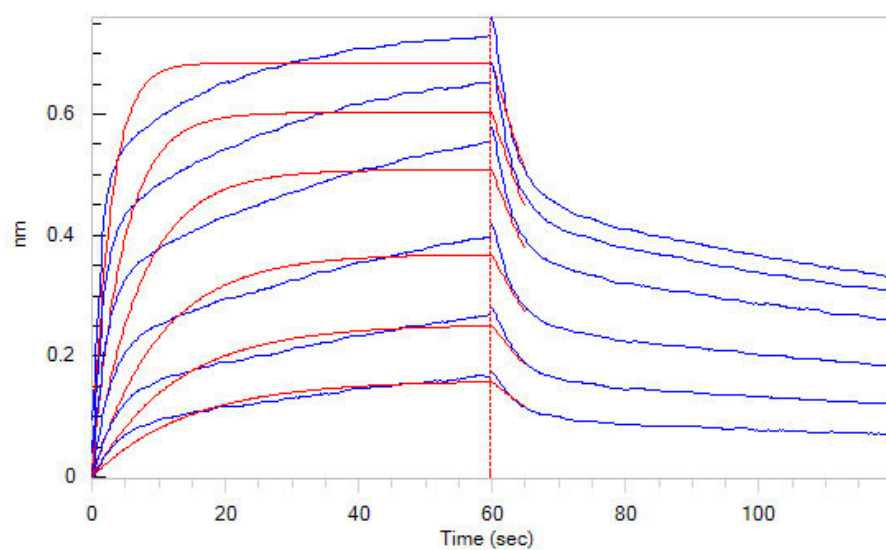
Bioactivity-BLI



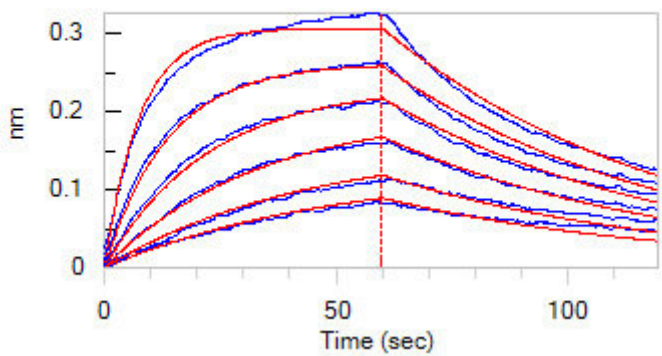
Loaded Human Nectin-4, Fc Tag (Cat. No. NE4-H5255) on Protein A Biosensor, can bind Human Nectin-1, His Tag (Cat. No. PV1-H5223) with an affinity constant of 0.263 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Human Nectin-1, His Tag (Cat. No. PV1-H5223) on HIS1K Biosensor, can bind Human Nectin-4, Fc Tag (Cat. No. NE4-H5255) with an affinity constant of 2 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Human Nectin-3, Fc Tag (Cat. No. PV3-H5255) on Protein A Biosensor, can bind Human Nectin-1, His Tag (Cat. No. PV1-H5223) with an affinity constant of 0.52  $\mu$ M as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Human Nectin-1, His Tag (Cat. No. PV1-H5223) on HIS1K Biosensor, can bind Human Nectin-3, Fc Tag (Cat. No. PV3-H5255) with an affinity constant of 0.14  $\mu$ 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  $\text{Ca}^{2+}$ -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.



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