



Synonym

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)
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.

Purity

>95% 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.

Storage

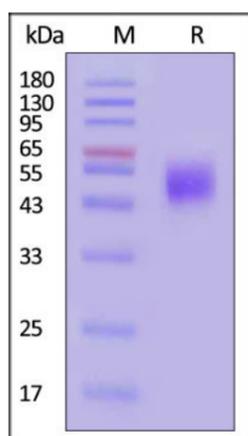
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

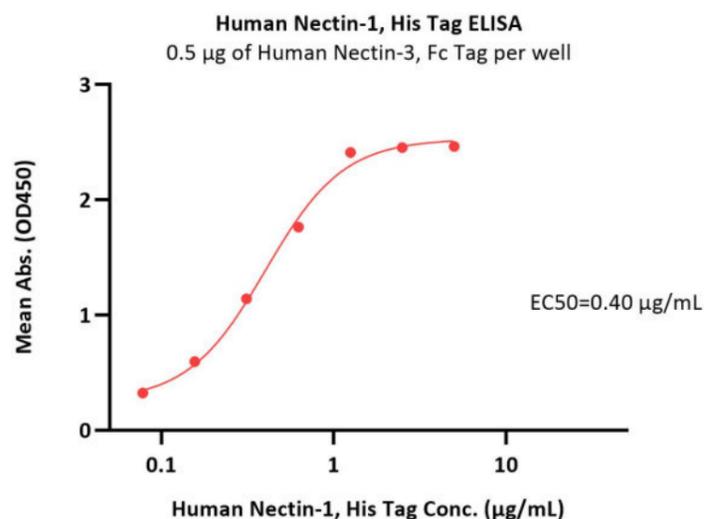


Human Nectin-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

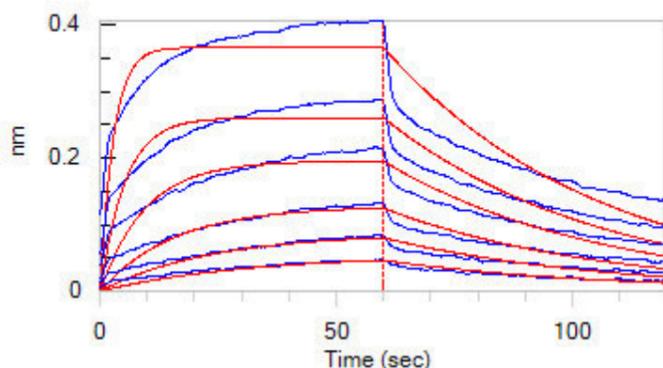
Discounts, Gifts,
and more!



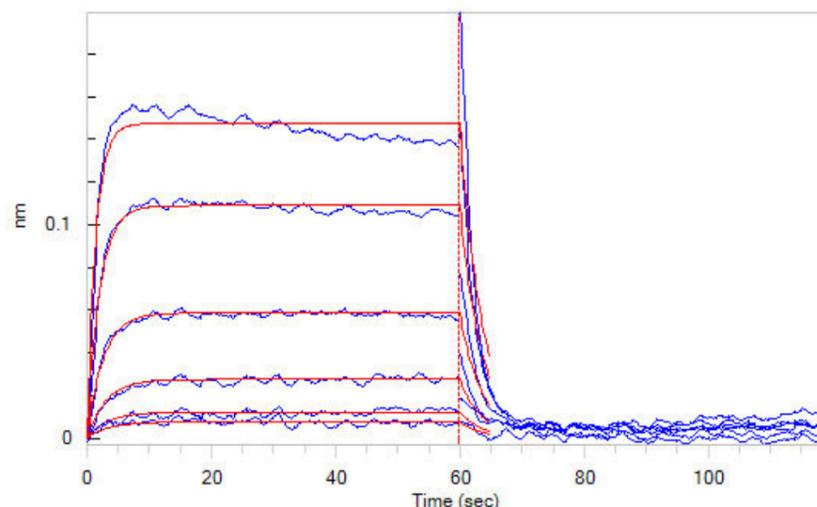


Immobilized Human Nectin-3, Fc Tag (Cat. No. PV3-H5255) at 5 µg/mL (100 µL/well) can bind Human Nectin-1, His Tag (Cat. No. PV1-H5223) with a linear range of 0.078-1.25 µg/mL (QC tested).

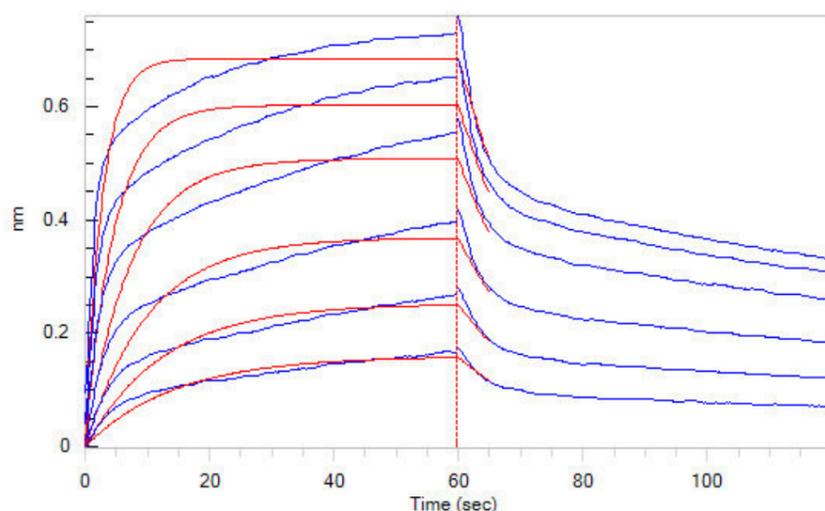
Bioactivity-BLI



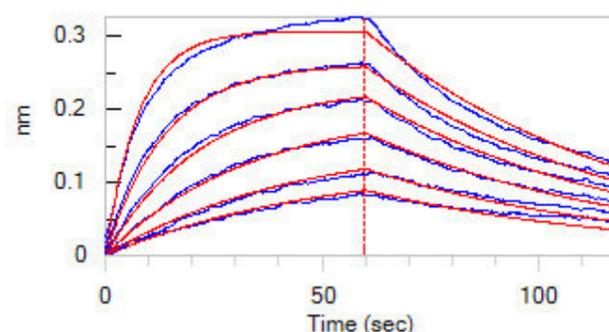
Loaded Human Nectin-4, Fc Tag (Cat. No. NE4-H5255) on Protein A Biosensor, can bind Human Nectin-1, His Tag (Cat. No. PV1-H5223) with an affinity constant of 0.263 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



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



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 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

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affinity constant of 0.52 μ 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

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