



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) Q15223-1	Fc(Pro 100 - Lys 330) P01857
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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 / rFC 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

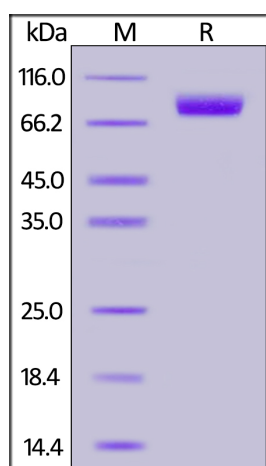
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

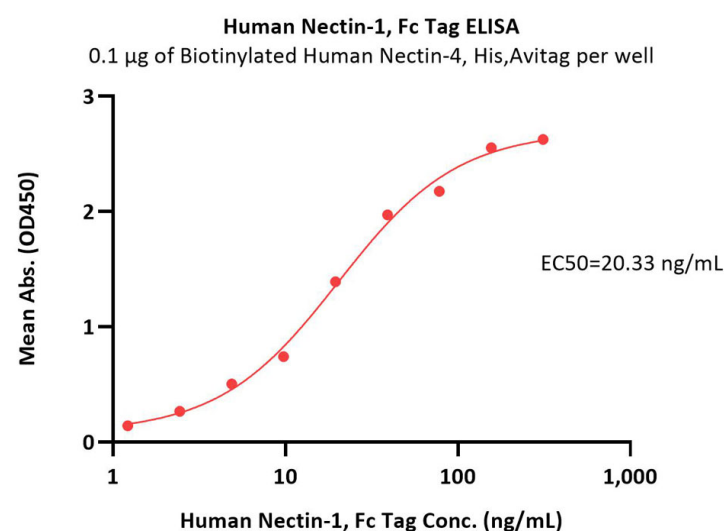
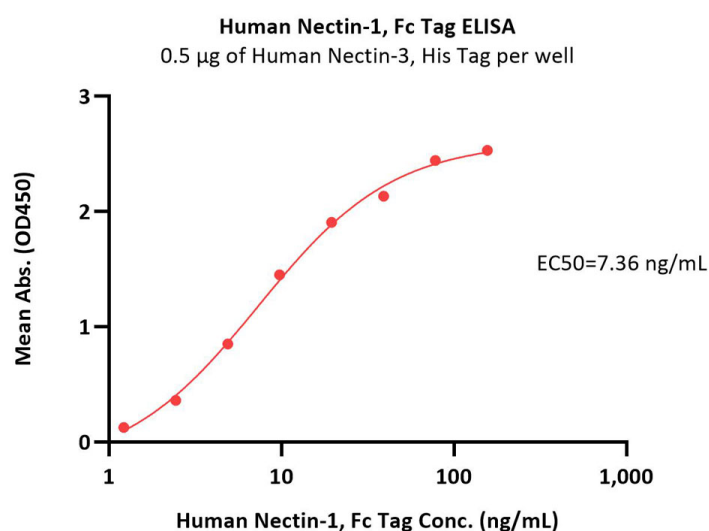


Human Nectin-1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Discounts, Gifts,
and more!

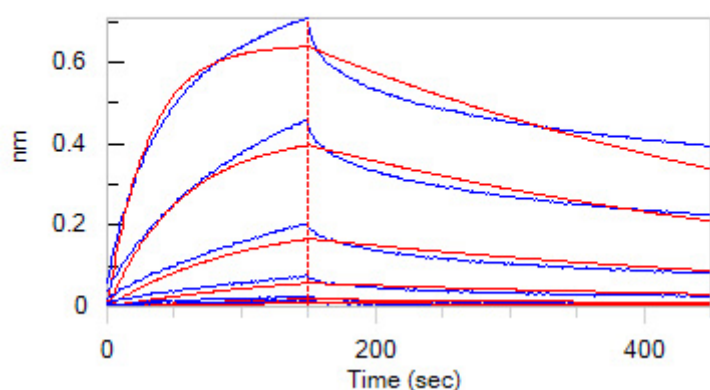




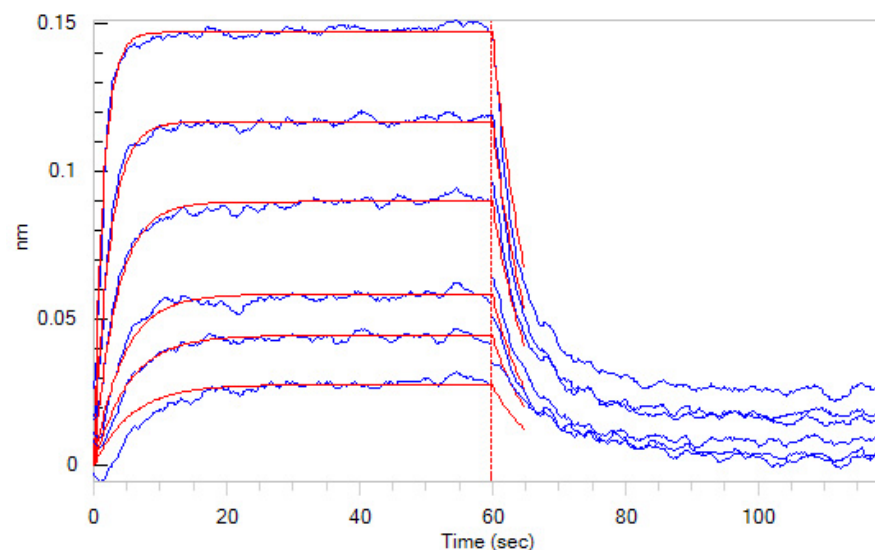
Immobilized Human Nectin-3, His Tag (Cat. No. PV3-H52E4) at 5 µg/mL (100 µL/well) can bind Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) with a linear range of 1-39 ng/mL (QC tested).

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).

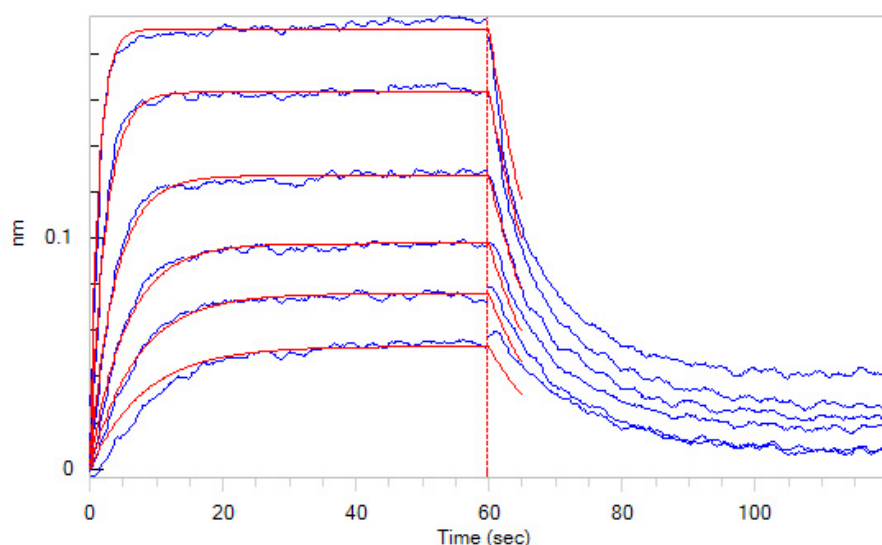
Bioactivity-BLI



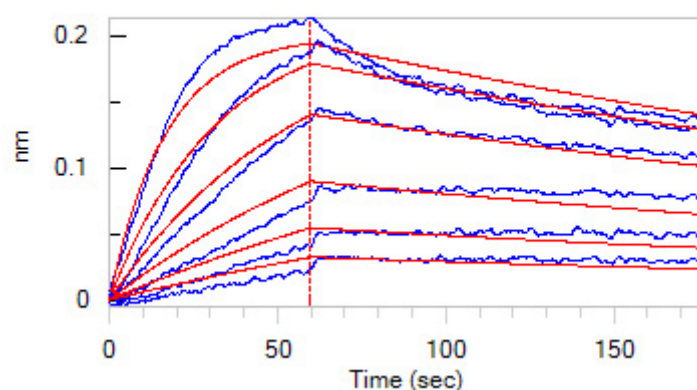
Loaded Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) on Protein A Biosensor, can bind Human Nectin-4, His Tag (Cat. No. NE4-H52H3) with an affinity constant of 0.271 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



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).

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affinity constant of 0.12 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.

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