

Synonym

CD113,Nectin-3,PVRL3

Source

Human Nectin-3, His Tag(PV3-H52E4) is expressed from human 293 cells (HEK293). It contains AA Gly 58 - Asp 400 (Accession # [Q9NQS3](#)).

Predicted N-terminus: Gly 58

Molecular Characterization

Nectin-3(Gly 58 - Asp 400) Q9NQS3	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 39.6 kDa. The protein migrates as 55-80 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 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.

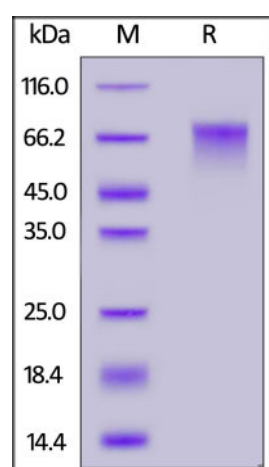
Storage

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

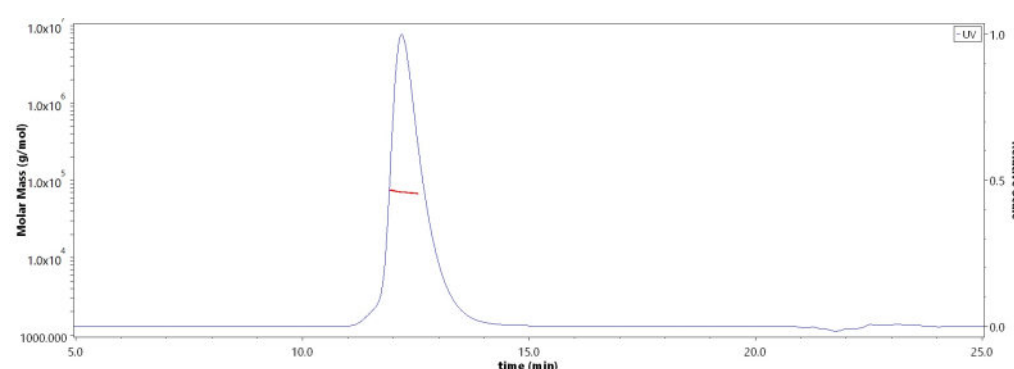
Please avoid repeated freeze-thaw cycles.

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.

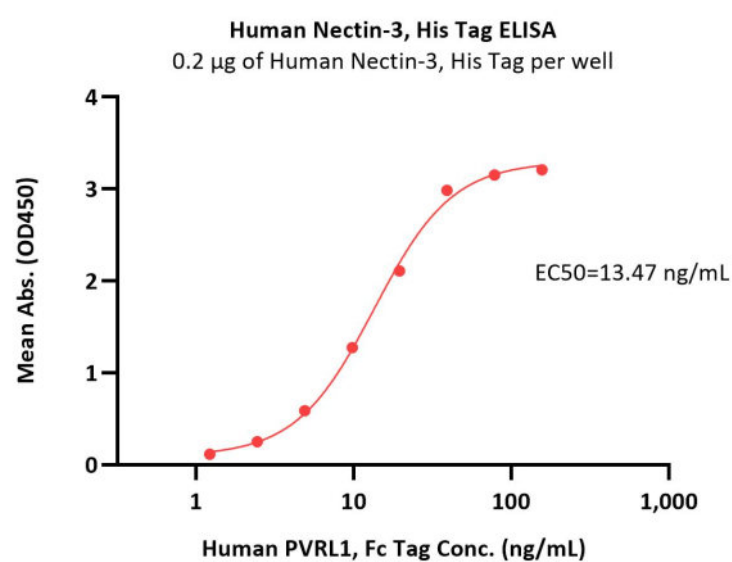
SDS-PAGE

Human Nectin-3, 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%.

Bioactivity-ELISA**SEC-MALS**

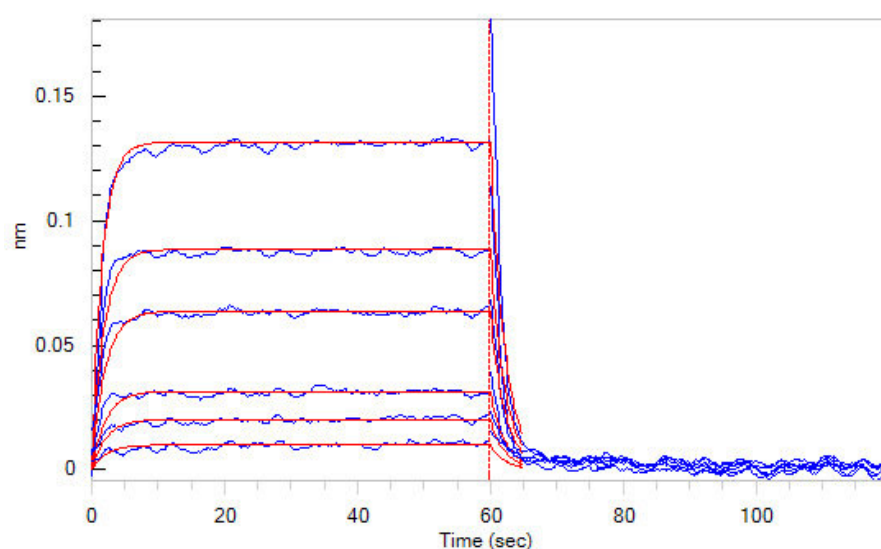
The purity of Human Nectin-3, His Tag (Cat. No. PV3-H52E4) is more than 85% and the molecular weight of this protein is around 65-90 kDa verified by SEC-MALS.

[Report](#)

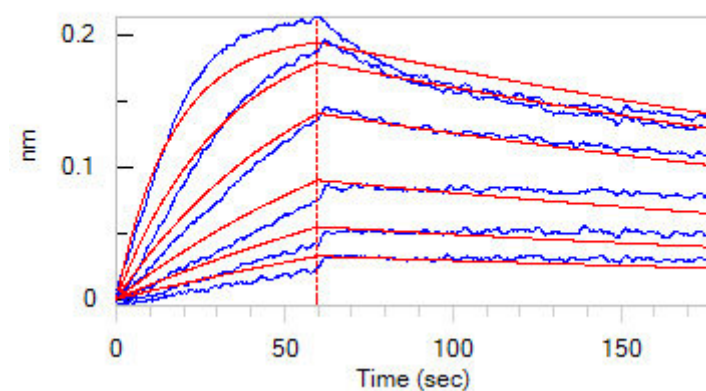


Immobilized Human Nectin-3, His Tag (Cat. No. PV3-H52E4) at 2 µg/mL (100 µL/well) can bind Human PVRL1, Fc Tag with a linear range of 1-20 ng/mL (QC tested).

Bioactivity-BLI



Loaded Human Nectin-1, Fc Tag (Cat. No. PV1-H5253) on Protein A Biosensor, can bind Human Nectin-3, His Tag (Cat. No. PV3-H52E4) with an affinity constant of 2.7 µM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



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).

Background

Poliovirus receptor-related 3 (PVRL3), also known as nectin-3 and CD113, is a human protein of the immunoglobulin superfamily which forms part of adherens junctions. Nectins are immunoglobulin-like adhesion molecules that interact with afadin (AF6; MIM 159559). Afadin is an actin filament-binding protein that connects nectins to the actin cytoskeleton. The nectin-afadin system organizes adherens junctions cooperatively with the cadherin system in epithelial cells. PVRL3 plays a role in cell-cell adhesion through heterophilic trans-interactions with nectin-like proteins or nectins, such as trans-interaction with PVRL2/nectin-2 at Sertoli-spermatid junctions. Furthermore, PVRL3 induces endocytosis-mediated down-regulation of PVR from the cell surface, resulting in reduction of cell movement and proliferation.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.