

**Synonym**

CD113,Nectin-3,PVRL3

**Source**

Biotinylated Human Nectin-3, Fc,Avitag(PV3-H82F3) is expressed from human 293 cells (HEK293). It contains AA Gly 58 - Asp 400 (Accession # [Q9NQS3-1](#)). Predicted N-terminus: Leu 56 & Gly 58

**Molecular Characterization**

Nectin-3(Gly 58 - Asp 400) Q9NQS3-1	Fc(Pro 100 - Lys 330) P01857	Avi
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This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 66.1 kDa. The protein migrates as 80-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**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.*

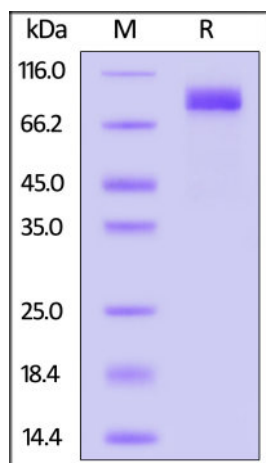
**Storage**

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.

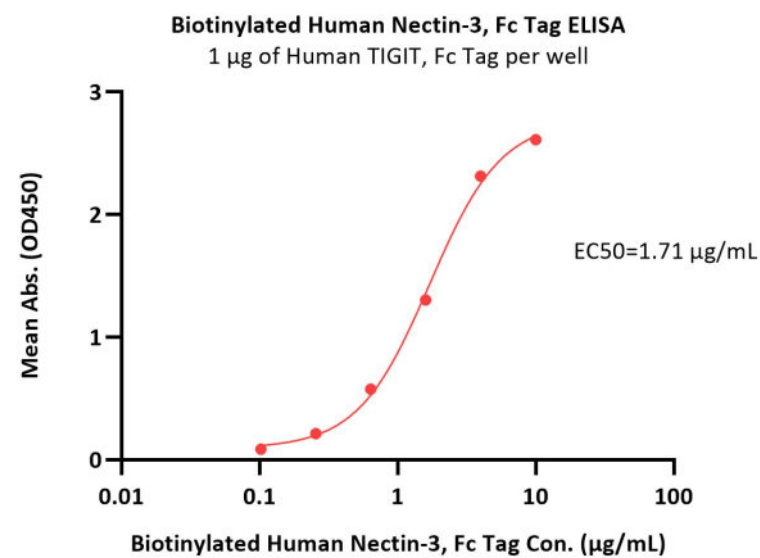
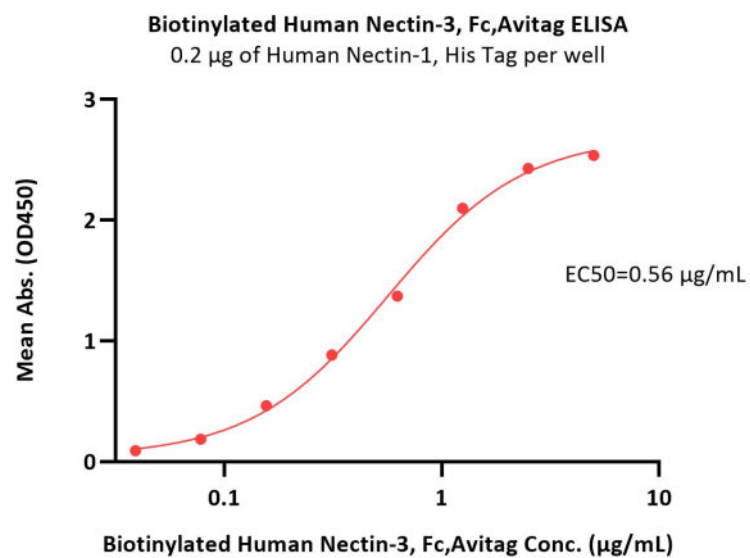
**SDS-PAGE**

Biotinylated Human Nectin-3, Fc,Avitag 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**

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Immobilized Human Nectin-1, His Tag (Cat. No. PV1-H5223) at 2 µg/mL (100 µL/well) can bind Biotinylated Human Nectin-3, Fc,Avitag (Cat. No. PV3-H82F3) with a linear range of 0.078-0.625 µg/mL (QC tested).

Immobilized Human TIGIT, Fc Tag (Cat. No. TIT-H5254) at 10 µg/mL (100 µL/well) can bind Biotinylated Human Nectin-3, Fc,Avitag (Cat. No. PV3-H82F3) with a linear range of 0.102-4 µg/mL (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

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