



**Synonym**

CD112,Nectin-2,PVRL2

**Source**

Biotinylated Human Nectin-2, Mouse IgG2a Fc,Avitag(CD2-H82A3) is expressed from human 293 cells (HEK293). It contains AA Gln 32 - Leu 360 (Accession # [Q92692-2](#)).

Predicted N-terminus: Gln 32

**Molecular Characterization**

Nectin-2(Gln 32 - Leu 360) Q92692-2	mFc(Glu 98 - Lys 330) P01863	Avi
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This protein carries a mouse IgG2a Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 64.1 kDa. The protein migrates as 70-90 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 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**

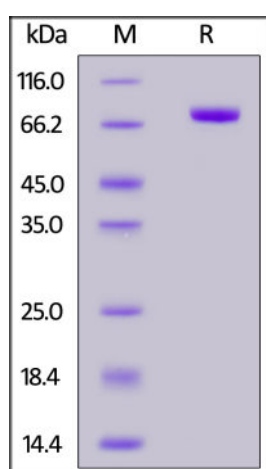
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

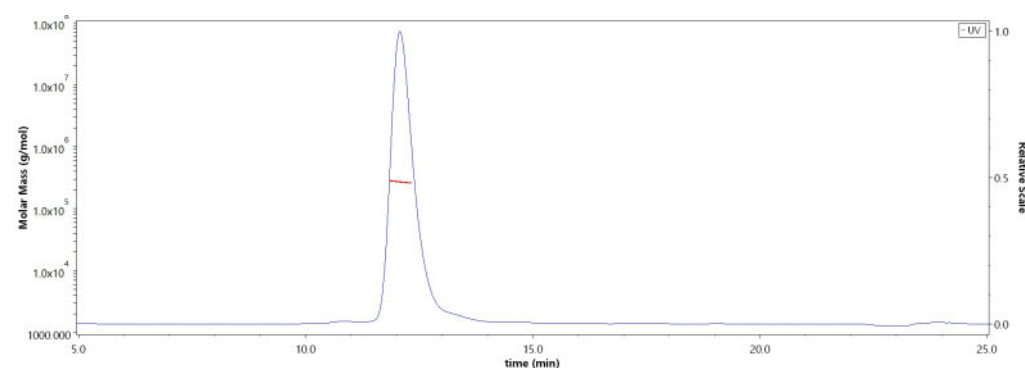
**SDS-PAGE**



Biotinylated Human Nectin-2, Mouse IgG2a 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**

**SEC-MALS**

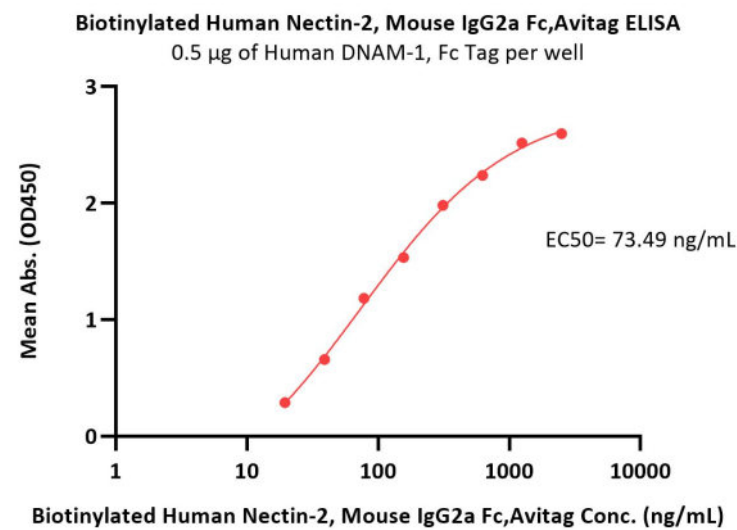
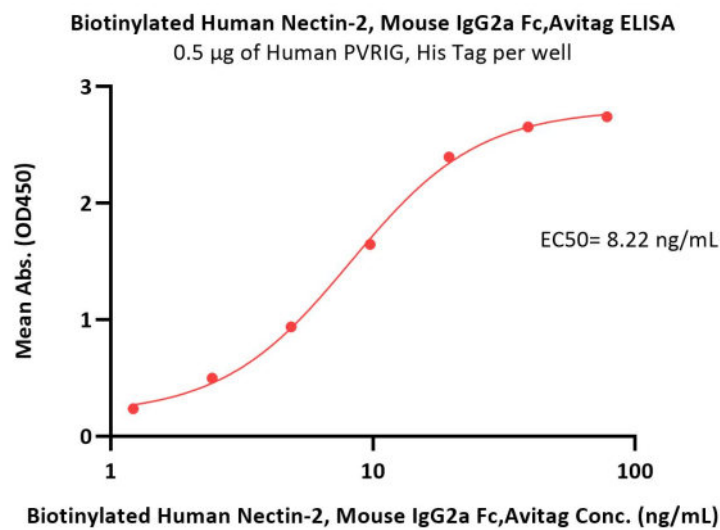


The purity of Biotinylated Human Nectin-2, Mouse IgG2a Fc,Avitag (Cat. No. CD2-H82A3) is more than 85% and the molecular weight of this protein is around 260-275 kDa verified by SEC-MALS.

[Report](#)

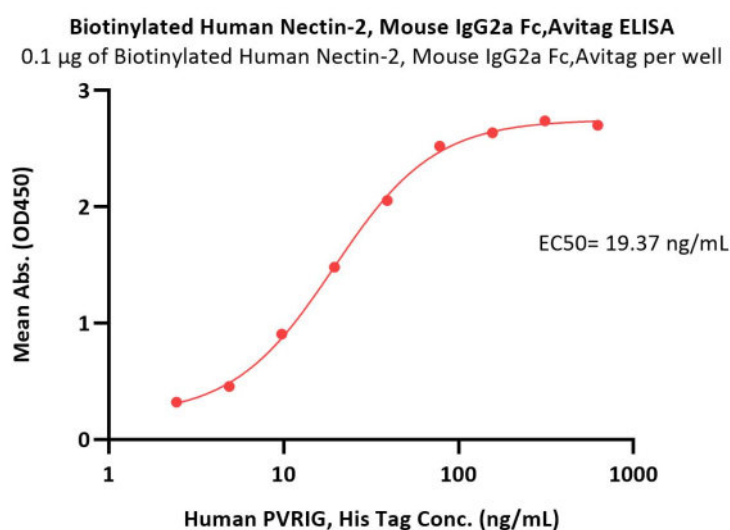
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Immobilized Human PVRIG, His Tag (Cat. No. PVG-H52H4) at 5 µg/mL (100 µL/well) can bind Biotinylated Human Nectin-2, Mouse IgG2a Fc,Avitag (Cat. No. CD2-H82A3) with a linear range of 0.6-10 ng/mL (QC tested).

Immobilized Human DNAM-1, Fc Tag (Cat. No. DN1-H5257) at 5 µg/mL (100 µL/well) can bind Biotinylated Human Nectin-2, Mouse IgG2a Fc,Avitag (Cat. No. CD2-H82A3) with a linear range of 0.01-0.625 µg/mL (Routinely tested).



Immobilized Biotinylated Human Nectin-2, Mouse IgG2a Fc,Avitag (Cat. No. CD2-H82A3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human PVRIG, His Tag (Cat. No. PVG-H52H4) with a linear range of 1-20 ng/mL (Routinely tested).

## Background

Poliovirus receptor-related 2 (PVRL2) is also known as nectin-2 and CD112 (formerly herpesvirus entry mediator B, HVEB), which is a human plasma membrane glycoprotein. PVRL2 is one of the plasma membrane components of adherens junctions. PVRL2 also serves as an entry for certain mutant strains of herpes simplex virus and pseudorabies virus, and it is involved in cell to cell spreading of these viruses. Variations in PVRL2 gene have been associated with differences in the severity of multiple sclerosis. Also, PVRL2 binds with low affinity to TIGIT. Furthermore, PVRL2 acts as a receptor for herpes simplex virus 1 (HHV-1) mutant Rid1, herpes simplex virus 1 (HHV-2) and pseudorabies virus (PRV).

## Clinical and Translational Updates

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