

Synonym

CD113,Nectin-3,PVRL3

Source

Human Nectin-3, Fc Tag (PV3-H5255) 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	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 64.3 kDa. The protein migrates as 80-95 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 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant before lyophilization.

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.

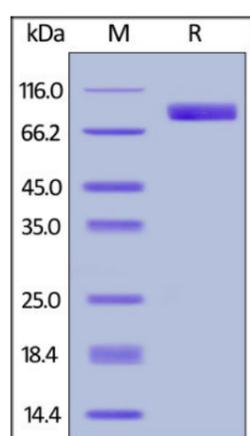
Storage

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

Please avoid repeated freeze-thaw cycles.

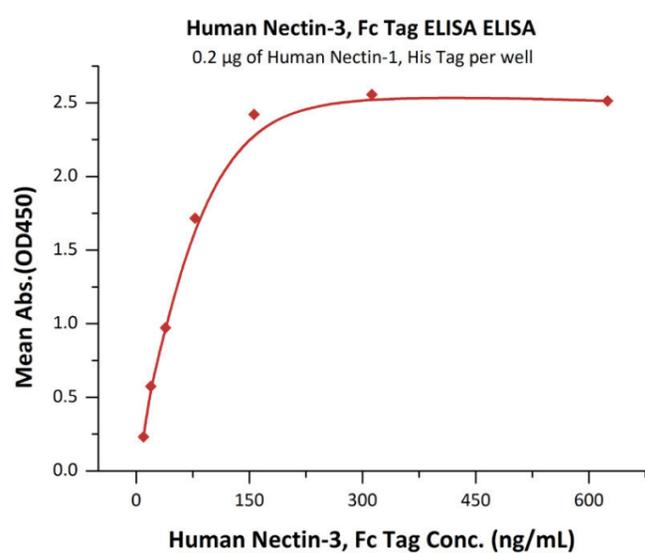
No activity loss was observed after storage at:

- $4-8^{\circ}\text{C}$ for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

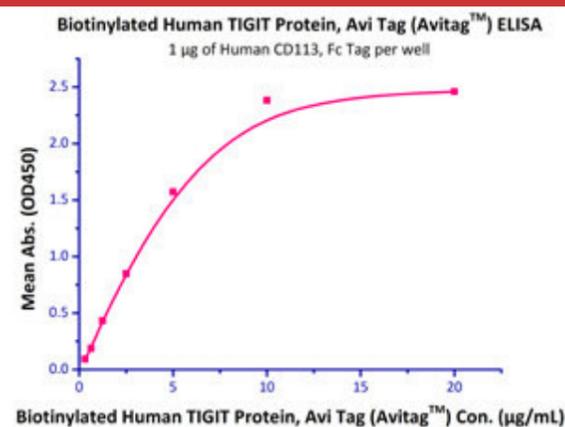
SDS-PAGE

Human Nectin-3, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Human Nectin-1, His Tag (Cat. No. [PV1-H5223](#)) at 2 µg/mL (100 µL/well) can bind Human Nectin-3, Fc Tag (Cat. No. [PV3-H5255](#)) with a linear range of 5-78 ng/mL (QC tested).



Immobilized Human CD113, Fc Tag (Cat. No. [PV3-H5255](#)) at 10 µg/mL (100 µL/well) can bind Biotinylated Human TIGIT, His Tag (Cat. No. [TIT-H82E5](#)) with a linear range of 0.3-5 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.

References

- (1) [Mueller S., et al., 2003, J. Biol. Chem. 278:31251-31260.](#)
- (2) [Yu X., et al., 2009, Nat. Immunol. 10:48-57.](#)

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