

**Synonym**

NECTIN4,LNIR, PRR4, PVRL4

**Source**

Biotinylated Cynomolgus Nectin-4 Protein, Fc,Avitag(NE4-C82F6) is expressed from human 293 cells (HEK293). It contains AA Gly 32 - Ser 349 (Accession # [XP\\_005541277.1](#)).

Predicted N-terminus: Gly 32

**Molecular Characterization**

Nectin-4(Gly 32 - Ser 349)	Fc(Pro 100 - Lys 330)	Avi
XP_005541277.1	P01857	

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 62.2 kDa. The protein migrates as 65-70 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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.

**Purity**

&gt;90% as determined by SDS-PAGE.

&gt;90% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM 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.*

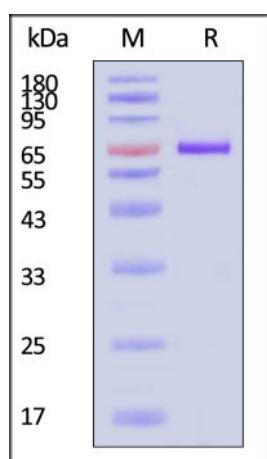
**Storage**

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

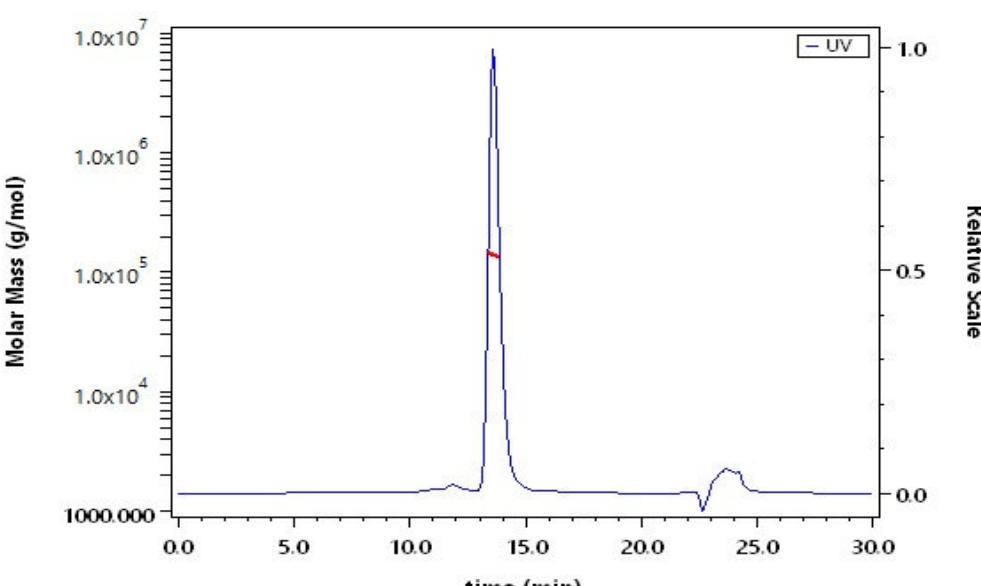
*Please avoid repeated freeze-thaw cycles.*

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 Cynomolgus Nectin-4 Protein, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

**SEC-MALS**

The purity of Biotinylated Cynomolgus Nectin-4 Protein, Fc,Avitag (Cat. No. NE4-C82F6) is more than 90% and the molecular weight of this protein is around 130-150 kDa verified by SEC-MALS.

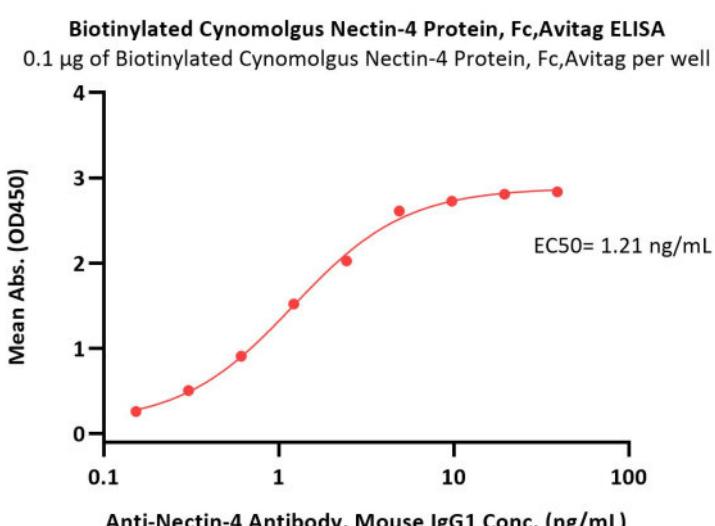
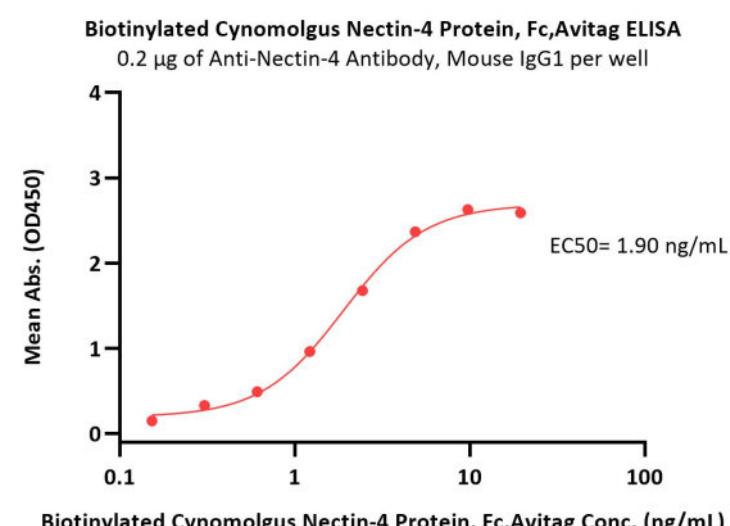
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Immobilized Anti-Nectin-4 Antibody, Mouse IgG1 at 2 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus Nectin-4 Protein, Fc,Avitag (Cat. No. NE4-C82F6) with a linear range of 0.2-5 ng/mL (QC tested).

Immobilized Biotinylated Cynomolgus Nectin-4 Protein, Fc,Avitag (Cat. No. NE4-C82F6) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-Nectin-4 Antibody, Mouse IgG1 with a linear range of 0.2-10 ng/mL (Routinely tested).

## Background

Nectin-4(Nectin cell adhesion molecule 4) is a Nectin and nectin-like family of cell adhesion molecules. It is found in high levels in normal embryonic and fetal tissues, but decreases after adulthood and is limited in distribution in healthy tissues. Nectin-4 is overexpressed in a variety of tumor cells and promotes tumor cell growth and proliferation. Solid tumors with high expression of Nectin-4 include bladder cancer, pancreatic cancer, triple negative breast cancer, non-small cell lung cancer, stomach cancer, esophageal cancer, ovarian cancer and many other cancers. Studies have found that Nectin-4 promotes tumor cell proliferation, differentiation, migration and invasion by activating the PI3K/Akt pathway, and is believed to play an important role in the occurrence and metastasis of cancer. It is based on these research backgrounds that drug research targeting this target has emerged.

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