

Biotinylated Human Nectin-4 Protein, His,Avitag™ (MALS verified)

Catalog # NE4-H82E7



BIOSYSTEMS
Acro

Synonyms

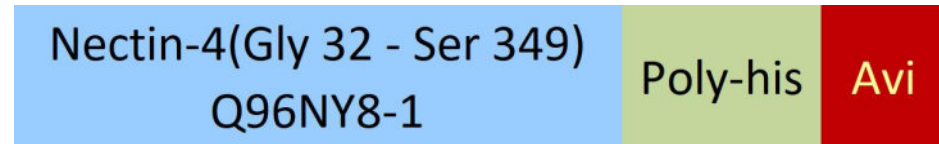
NECTIN4, LNIR, PRR4, PVRL4

Source

Biotinylated Human Nectin-4, His,Avitag (NE4-H82E7) is expressed from human 293 cells (HEK293). It contains AA Gly 32 - Ser 349 (Accession # [Q96NY8-1](#)).

Predicted N-terminus: Gly 32

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 37.8 kDa. The protein migrates as 40-45 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 Avi tag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

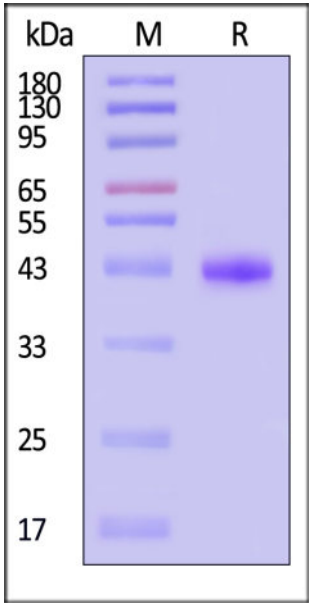
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

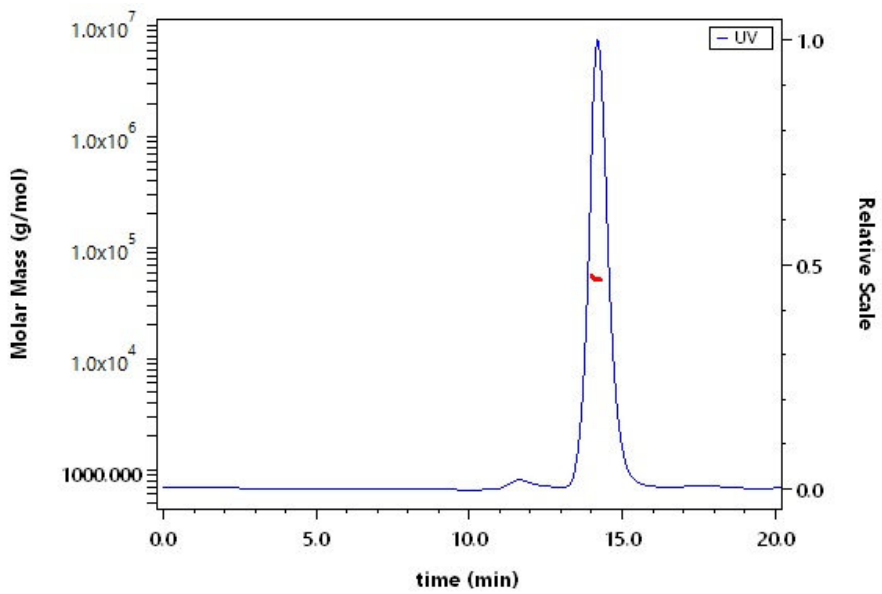
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



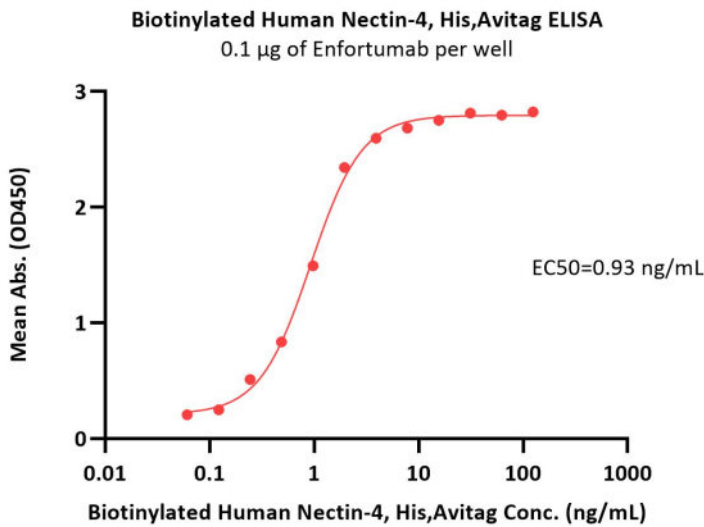
Biotinylated Human Nectin-4, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



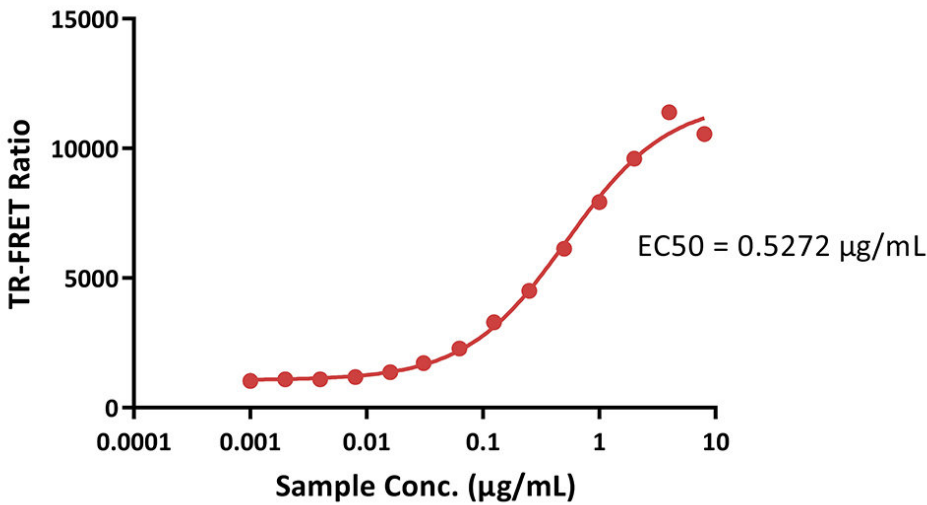
The purity of Biotinylated Human Nectin-4, His,Avitag (Cat. No. NE4-H82E7) is more than 95% and the molecular weight of this protein is around 38-56 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Enfortumab at 1 µg/mL (100 µL/well) can bind Biotinylated Human Nectin-4, His,Avitag (Cat. No. NE4-H82E7) with a linear range of 0.06-2 ng/mL (QC tested).

Bioactivity-TR-FRET



In this TR-FRET assay, Streptavidin Protein Europium chelate (for TR-FRET) (Cat. No. FRT-TD09) is used as the Donor and Monoclonal Anti-Human IgG Antibody FA-Labeled (for TR-FRET) (Cat. No. FRT-TA02) is used as the Acceptor. Biotinylated Human Nectin-4, His,Avitag (Cat. No. NE4-H82E7), at 0.3125 ng/well, can bind to the Enfortumab with a linear detection range of 8-0.001 µg/mL. (Routinely tested)

Background

Nectin-4 (gene name PVRL4, poliovirus receptor-like 4) is a 66 kDa type I transmembrane glycoprotein belonging to the Nectin family of Ig superfamily proteins. Nectins are cell adhesion molecules that play a key role in various biological processes such as polarity, proliferation, differentiation and migration, for epithelial, endothelial, immune and neuronal cells, during development and adult life. Nectin-4 is a tumor-associated antigen in 50%, 49% and 86%o of breast, ovarian and lung carcinomas, respectively, mostly on tumors of bad prognosis. Its expression is not detected in the corresponding normal tissues.



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