

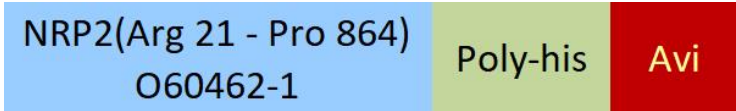
Synonym

Neuropilin-2,NRP2,VEGF165R2,Neuropilin2,Vascular endothelial cell growth factor 165 receptor 2

Source

Biotinylated Human Neuropilin-2 Protein, His,Avitag(NR2-H82E3) is expressed from human 293 cells (HEK293). It contains AA Arg 21 - Pro 864 (Accession # [O60462-1](#)).
Predicted N-terminus: Arg 21

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 98.7 kDa. The protein migrates as 130-150 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

>90% as determined by SDS-PAGE.
>90% 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

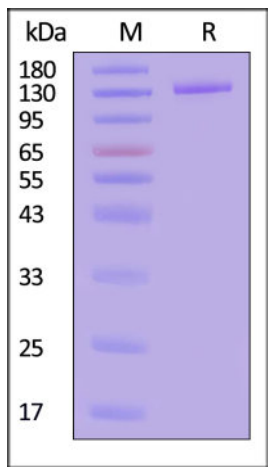
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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.

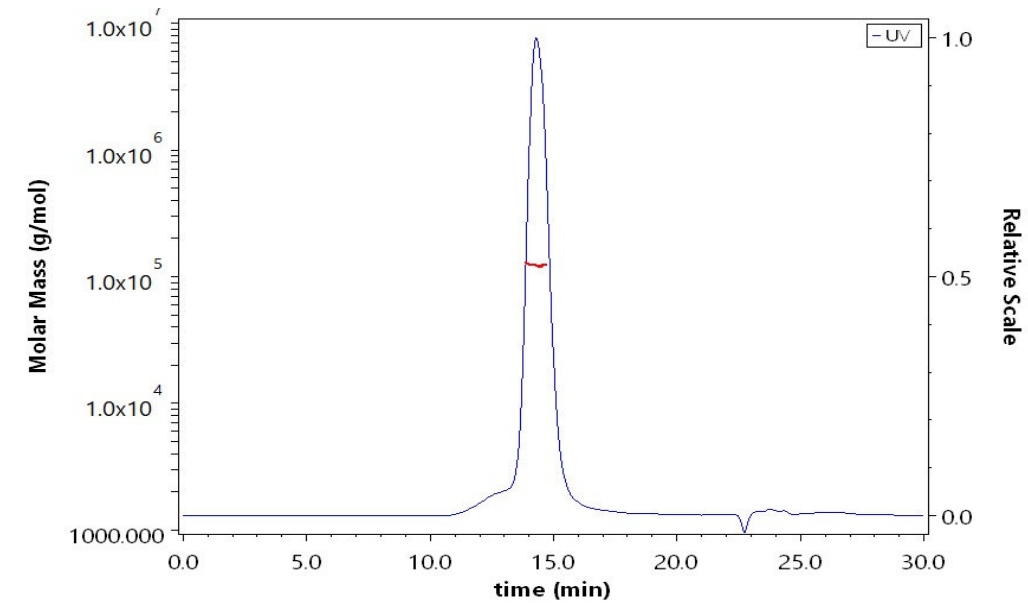
SDS-PAGE



Biotinylated Human Neuropilin-2 Protein, His,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](#)).

Bioactivity-ELISA

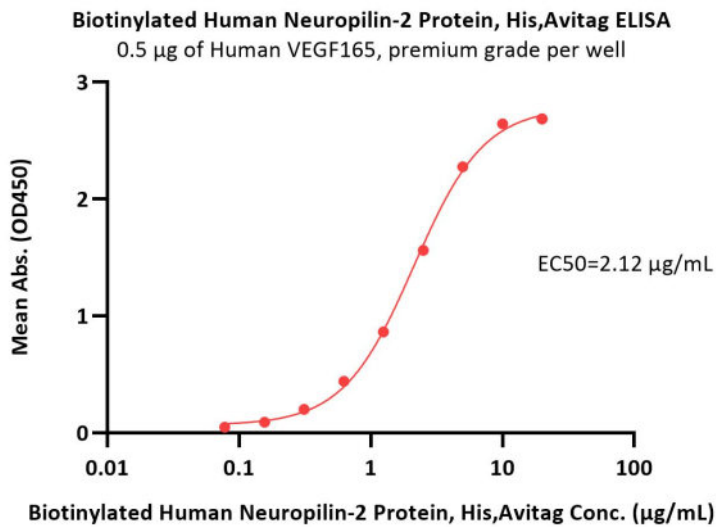
SEC-MALS



The purity of Biotinylated Human Neuropilin-2 Protein, His,Avitag (Cat. No. NR2-H82E3) is more than 90% and the molecular weight of this protein is around 100-150 kDa verified by SEC-MALS.
[Report](#)

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and more!





Immobilized Human VEGF165, premium grade (Cat. No. VE5-H4210) at 5 µg/mL (100 µL/well) can bind Biotinylated Human Neuropilin-2 Protein, His,Avitag (Cat. No. NR2-H82E3) with a linear range of 0.08-5 µg/mL (QC tested).

Background

Neuropilin-1 (Npn-1, previously known as neuropilin) and Neuropilin-2 (previously known as Npn-1-related molecule) are type I transmembrane proteins that bind distinct members of the class III secreted semaphorin subfamily that are implicated in repulsive axon guidance. Neuropilin extracellular domains contain two CUB (complement-binding) domains, two domains with homology to coagulation factors V and VIII, and a MAM (meprin) domain. In the absence of ligands, neuropilins can form homo- and hetero-oligomers via their MAM domains. Expression in developing neurons of the central and peripheral nervous systems is somewhat overlapping but distinct. Npn-1 and Npn-2 are also receptors for VEGF165 on endothelial and tumor cells.

