

Synonym

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

Source

Human Neuropilin-2, His Tag(NR2-H52H3) is expressed from human 293 cells (HEK293). It contains AA Arg 21 - Pro 864 (Accession # [O60462-1](#)).
Predicted N-terminus: Arg 21

Molecular Characterization

NRP2(Arg 21 - Pro 864)
O60462-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 97.0 kDa. The protein migrates as 105-125 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

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.

Storage

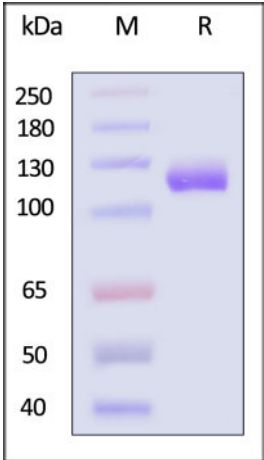
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

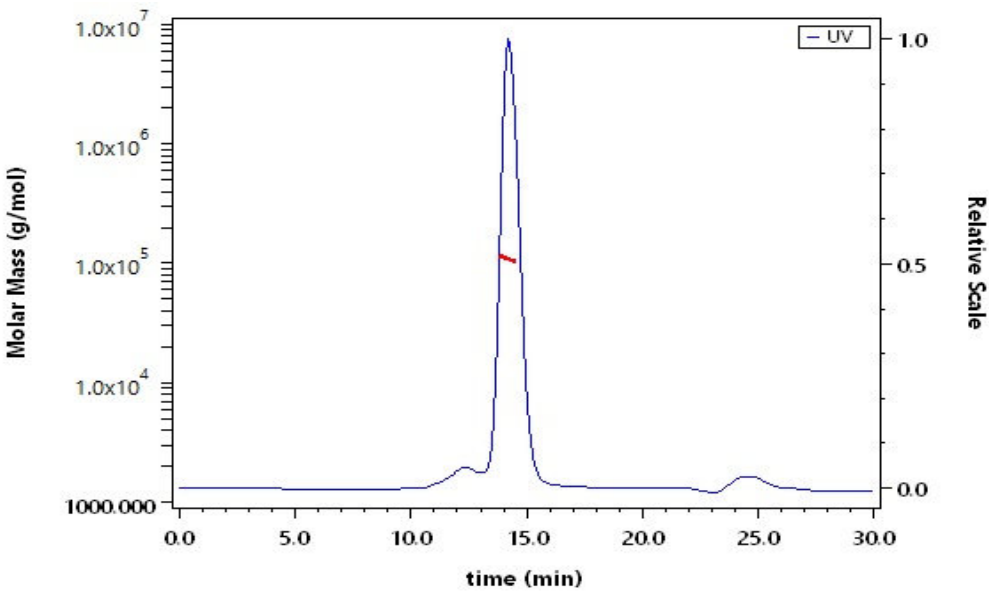
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human Neuropilin-2, His Tag 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



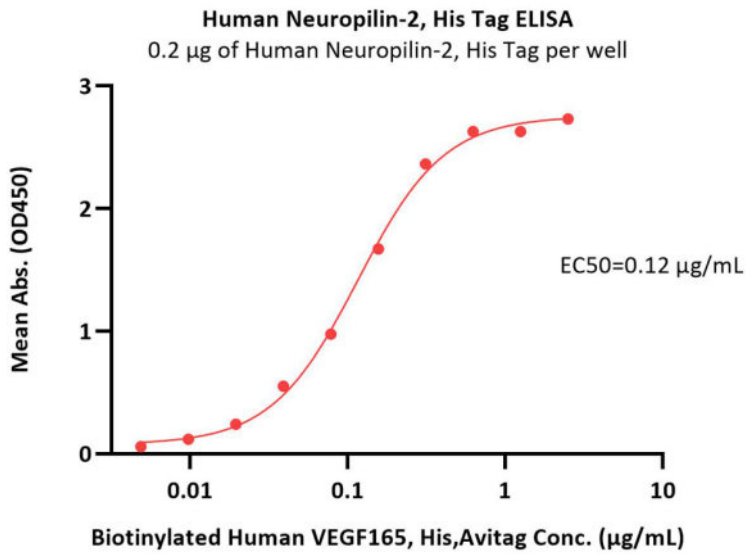
The purity of Human Neuropilin-2, His Tag (Cat. No. NR2-H52H3) is more than 95% and the molecular weight of this protein is around 98-128 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA

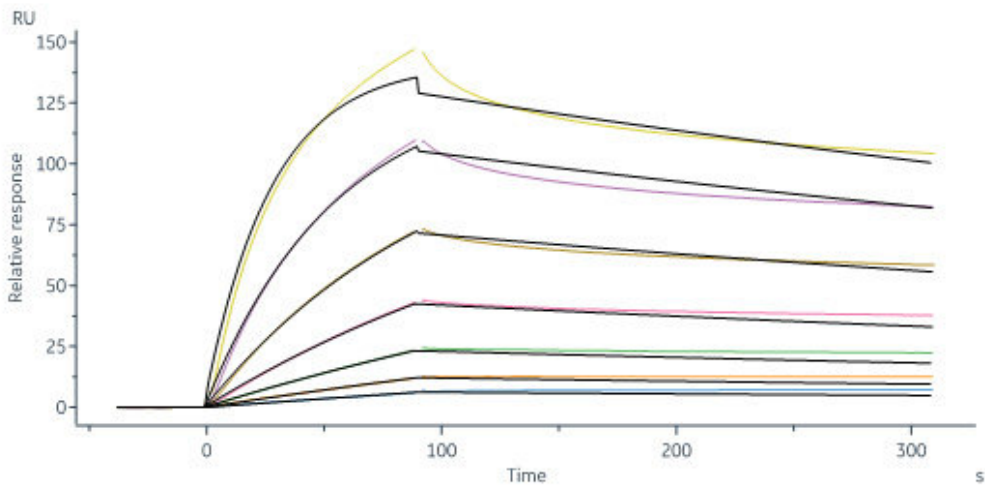
Discounts, Gifts,
and more!





Immobilized Human Neuropilin-2, His Tag (Cat. No. NR2-H52H3) at 2 µg/mL (100 µL/well) can bind Biotinylated Human VEGF165, His,Avitag (Cat. No. VE5-H82Q0) with a linear range of 0.005-0.625 µg/mL (QC tested).

Bioactivity-SPR



Human VEGF-C Protein, His Tag (Cat. No. VEC-H52H3) immobilized on CM5 Chip can bind Human Neuropilin-2, His Tag (Cat. No. NR2-H52H3) with an affinity constant of 8.36 nM as determined in a SPR assay (Biacore 8K) (Routinely 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.

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