



## Synonym

NRP1,Neuropilin-1,NRP,VEGF165R,CD304

## Source

Mouse Neuropilin-1, His Tag(NR1-M52H3) is expressed from human 293 cells (HEK293). It contains AA Phe 22 - Pro 856 (Accession # [P97333-1](#)).

Predicted N-terminus: Phe 22

## Molecular Characterization

NRP1(Phe 22 - Pro 856)  
P97333-1 Poly-his

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

The protein has a calculated MW of 95.5 kDa. The protein migrates as 120-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

## 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

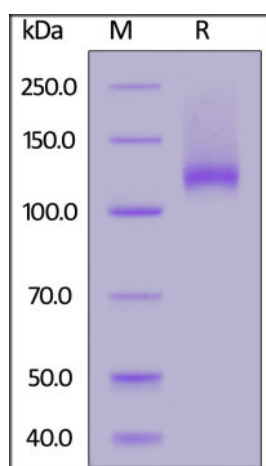
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

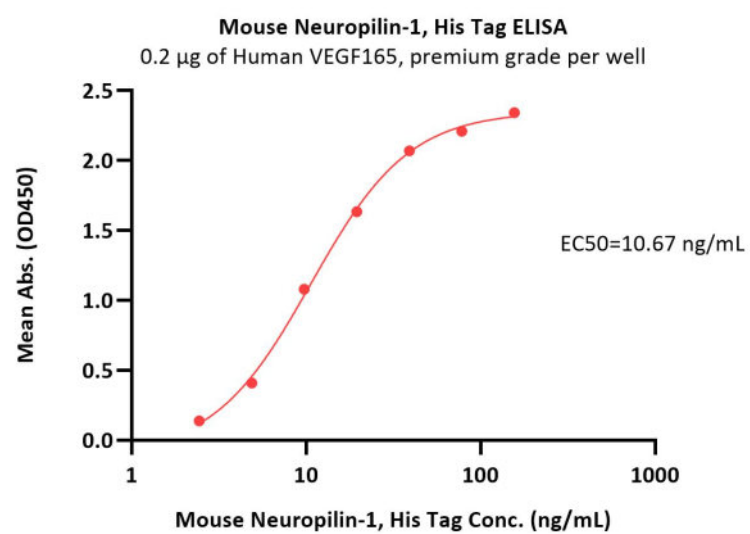


Mouse Neuropilin-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA

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Immobilized ActiveMax® Human VEGF165, Tag Free (MALS verified) (Cat. No. VE5-H4210) at 2 µg/mL (100 µL/well) can bind Mouse Neuropilin-1 Protein, His Tag (Cat. No. NR1-M52H3) with a linear range of 2-20 ng/mL (QC tested).

## Background

Neuropilin-1 (NRP1) is also known as Vascular endothelial cell growth factor 165 receptor (VEGF165R), CD antigen CD304, which belongs to the neuropilin family. The membrane-bound isoform 1 is a receptor involved in the development of the cardiovascular system, in angiogenesis, in the formation of certain neuronal circuits and in organogenesis outside the nervous system. It mediates the chemorepulsant activity of semaphorins. It binds to semaphorin 3A, The PLGF-2 isoform of PGF, The VEGF-165 isoform of VEGF and VEGF-B. Coexpression with KDR results in increased VEGF-165 binding to KDR as well as increased chemotaxis. It may regulate VEGF-induced angiogenesis. The soluble isoform 2 binds VEGF-165 and appears to inhibit its binding to cells.

## Clinical and Translational Updates

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