

Recombinant Human NRP1 protein, His-tagged

Cat. No. NRP1-2065H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRP1 (Phe22-Lys644) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	Phe22-Lys644
Description	<p>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.</p>
Predicted N Terminal	Phe22
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 70.7 kDa. The protein migrates as 75-116 kDa

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under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin Less than 1.0 EU per µg by the LAL method.

Purity >92% as determined by SDS-PAGE.

Storage

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

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

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

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name [NRP1](#)

Official Symbol [NRP1](#)

Synonyms NRP1; neuropilin 1; neuropilin-1; CD304; NRP; VEGF165R; transmembrane receptor; vascular endothelial cell growth factor 165 receptor; NP1; BDCA4; DKFZp781F1414; DKFZp686A03134

Gene ID [8829](#)

mRNA Refseq [NM_001024628](#)

Protein Refseq [NP_001019799](#)

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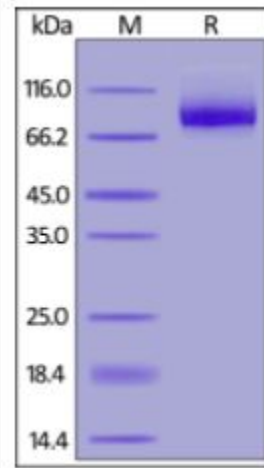
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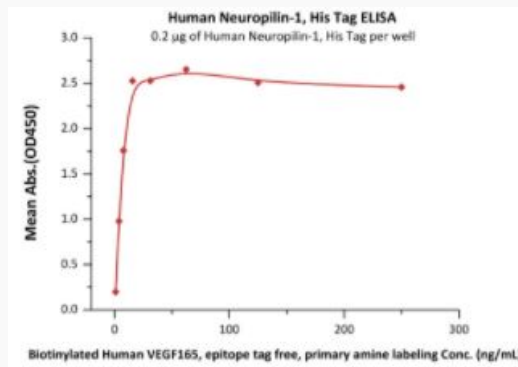
UniProt ID O14786

SDS-PAGE of NRP1-2065H



Human Neuropilin-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 92%.

Bioactivity-ELISA of NRP1-2065H



Immobilized Human Neuropilin-1, His Tag at 2 µg/mL (100 µL/well) can bind

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Biotinylated Human VEGF165, epitope tag free, primary amine labeling with a linear range of 1-8 ng/mL (QC tested).

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