

## Neuropilin-2 / NRP2 Recombinant Protein | NRP2 recombinant protein

Recombinant Human Neuropilin-2 / NRP2 Protein (His tag)

CATALOG #  
**AAA173513**

HOST  
**HEK293 Cells**

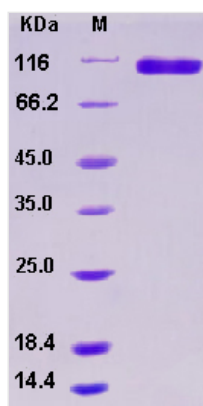
### PRODUCT SYNONYMS

Neuropilin-2 / NRP2; Recombinant Human Neuropilin-2 / NRP2 Protein (His tag); Neuropilin-2;NP2;NPN2;PRO2714;VEGF165R2; NRP2 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | HEK293 Cells                                                                                                                                                                                                                                              |
| Purity/Purification     | > 97 % as determined by SDS-PAGE                                                                                                                                                                                                                          |
| Form/Format             | Lyophilized from sterile PBS, pH 7.4 5% Trehalose, 5% Mannitol                                                                                                                                                                                            |
| Sequence Positions      | Met 1-Tyr 855                                                                                                                                                                                                                                             |
| Sequence Length         | 926                                                                                                                                                                                                                                                       |
| Species                 | Human                                                                                                                                                                                                                                                     |
| Tag                     | C-His                                                                                                                                                                                                                                                     |
| Bio-activity            | Measured by its binding ability in a functional ELISA.                                                                                                                                                                                                    |
| Endotoxin               | < 1.0 EU per ug as determined by the LAL method                                                                                                                                                                                                           |
| Reconstitution          | We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis. |
| Preparation and Storage | Lyophilized protein should be stored at < -20°C. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.                                                                |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for NRP2 recombinant protein | Background: Neuropilin-2 (NRP-2) which is related to NRP-1, is a type I transmembrane glycoprotein and has the structure characteristic with five main extracellular domains: two complement binding (CUB) domains, two coagulation factor V/VIII homology domains, and a MAM (meprin, tyrosine phosphatase domain) region. NRP-2 is a receptor capable of binding two disparate ligands, classIII semaphorins (SEMA) and vascular endothelial growth factors (VEGF), and thus regulates two diverse systems by activating cellular signaling pathways via interacting with other cell surface receptors such as VEGF receptors and plexins. NRP-2 is well known for its role in facilitating axonal guidance during the development of the neuronal system, and additionally, it is also expressed in vascular endothelial cells and lymphatic endothelium where it affects proliferation, migration, angiogenesis, as well as formation of small lymphatic vessels and capillaries. Recent study has identified NRP-2 as a polysialylated protein expressed in human dendritic cells and modulates DC-T cell Interactions. Nearly all tumor cells express neuropilins and NRP-2 is predominantly expressed in neuronal tumors and melanomas. Furthermore, it is suggested that as the specific ligand for NRP-2, SEMA 3F inhibits tumor angiogenesis and metastasis. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 41872533                                                                                       |
| NCBI GeneID                      | 8828                                                                                           |
| NCBI Accession #                 | NP_003863.2                                                                                    |
| NCBI GenBank Nucleotide #        | NM_003872.2                                                                                    |
| UniProt Accession #              | O60462; O14820; O14821; Q53TQ4; Q53TS3; Q7LBX7; Q9H2D4; Q9H2D5; Q9H2E2; Q9H2E3; Q9H2E4; E9PF66 |
| Molecular Weight                 | Mol_Mass: 95 kDa<br>AP_Mol_Mass: 100-110 kDa                                                   |
| NCBI Official Full Name          | neuropilin-2 isoform 2                                                                         |
| NCBI Official Synonym Full Names | neuropilin 2                                                                                   |
| NCBI Official Symbol             | NRP2                                                                                           |
| NCBI Official Synonym Symbols    | NP2; NPN2; PRO2714; VEGF165R2                                                                  |
| NCBI Protein Information         | neuropilin-2                                                                                   |
| UniProt Protein Name             | Neuropilin-2                                                                                   |
| UniProt Gene Name                | <b>NRP2</b>                                                                                    |
| UniProt Synonym Gene Names       | VEGF165R2                                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.