

Neuropilin-2 / NRP2 Recombinant Protein | NRP2 recombinant protein

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

CATALOG #
AAA173513

HOST
HEK293 Cells

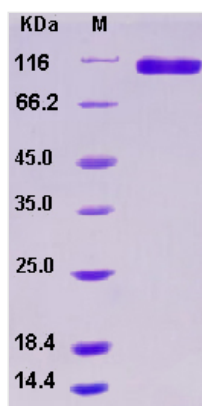
PRODUCT SYNONYMS

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 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	NRP2
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.