

Neuropilin-2 Active Protein | NRP2 active protein

Neuropilin-2 Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA257915

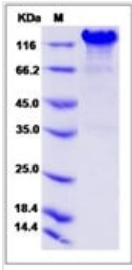
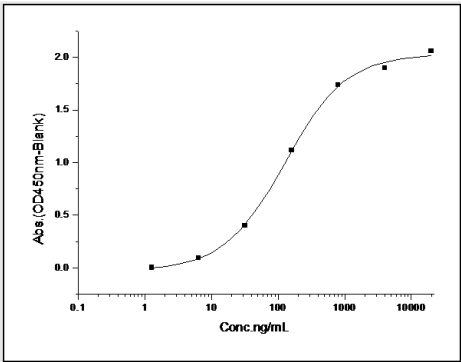
HOST
HEK293 Cells

PRODUCT SYNONYMS

Neuropilin-2; Neuropilin-2 Protein; Human; Recombinant (hFc Tag); Human Neuropilin 2/NRP2 Protein (Fc Tag); NP2 Protein; NPN2 Protein; PRO2714 Protein; VEGF165R2 Protein; neuropilin 2; NRP2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Tyr85 5
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gln 23
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human NRP2 (NP_003863.2)(Met1-Tyr855) was expressed with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1.Measured by its binding ability in a functional ELISA.2.Immobilized human VEGFC-His at 10ug/mL (100uL/well) can bind human NRP2-Fc. The EC50 of human NRP2-Fc is 0.1-0.5ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human VEGFC-His at 10 ug/mL (100 uL/well) can bind human NRP2-Fc, the EC50 of human NRP2-Fc is 0.1-0.5 ug/mL.

ADDITIONAL INFORMATION

Related Product Information for NRP2 active 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 the formation of small lymphatic vessels and capillaries. A recent study has identified NRP-2 as a polysialylation 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.
References	Chen H. et al., 1997, Neuron. 19: 547-59. Bielenberg DR. et al., 2006, Exp Cell Res. 312: 584-93. Yuan L. et al., 2002, Development. 129: 4797-806. Benoit F. et al., 2006, Blood. 108: 1243-50. Sabrina C. et al., 2007, J Biol Chem. 282: 30346-56. Gray MJ. et al., 2008, J Natl Cancer Inst. 100: 109-20.

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	931
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; neuropilin-2b(0); neuropilin-2a(17); neuropilin-2a(22); receptor for VEGF165 and semaphorins class3; vascular endothelial cell growth factor 165 receptor 2
UniProt Protein Name	Neuropilin-2

UniProt Gene Name	NRP2
UniProt Synonym Gene Names	VEGF165R2
UniProt Entry Name	NRP2_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/hek293-nrp2-active-protein/neuropilin-2/257915>