

NRP2

Recombinant Human Neuropilin-2 / VEGF-165 R2 (His Tag)

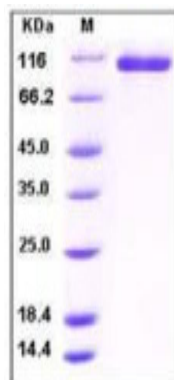
Catalog No.	CRH543A-His CRH543B-His	Quantity:	20 µg 50 µg
Alternate Names:	Neuropilin-2, Vascular endothelial cell growth factor 165 receptor 2		
Description:	Neuropilin-2 (NRP-2) is a transmembrane glycoprotein and has the structure characteristic with five main extracellular domains: two complement 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, class3 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.		
UniProt ID:	O60462		
Accession Number:	NP_003863.2		
Protein Construction:	A DNA sequence encoding the extracellular domain (Met 1-Tyr 855) of human Neuropilin2 isoform 2 was expressed with a C-terminal polyhistidine tag.		
Source:	HEK293 Cells		
Formulation:	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The rhNRP2 consists of 844 amino acids and has a calculated molecular mass of 95 kDa. The apparent molecular mass of rhNRP2 is approximately 100-110 kDa in SDS-PAGE under reducing conditions due to glycosylation.		
Purity:	> 97 % as determined by SDS-PAGE.		
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.		
Biological Activity:	Measured by its binding ability in a functional ELISA.		
Predicted N-terminal:	Gln 23		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		



Storage & Stability:

Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

SDS-PAGE



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