

Active Recombinant Human NRP1 Protein(Met 1-Lys 644, with natural variants V179A), His-tagged

Cat. No. NRP1-090H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human NRP1 Protein(NP_001019799.2, with natural variants V179A) (Met 1-Lys 644) was expressed in HEK293, fused with a polyhistidine tag at the C-terminus.
Species	Human
Source	HEK293
ProteinLength	Met 1-Lys 644, with natural variants V179A
Form	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Using the Octet RED System, the affinity constant (Kd) of NRP1-his bound to biotinylated human VEGF165 was 25nM. 2. Immobilized Recombinant Human / Cynomolgus VEGF / VEGFA / VEGF165 Protein at 2 µg/mL (100 µL/well) can bind Recombinant Human Neuropilin-1 / NRP1 / CD304 Protein (His Tag) with a linear range of 32-160 µg/mL.
Molecular Mass	The secreted recombinant human NRP1 consists of 634 amino acids and has a calculated molecular mass of 71.3 kDa. As a result of glycosylation, rh NRP1 migrates as an approximately 88 kDa band in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
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 neuropilin 1 [Homo sapiens]
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
MIM	602069
UniProt ID	O14786

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