

# 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

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | 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.  |
| <b>Species</b>          | Human  |
| <b>Source</b>           | HEK293   |
| <b>ProteinLength</b>    | Met 1-Lys 644, with natural variants V179A   |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.   |
| <b>Bio-activity</b>     | <ol style="list-style-type: none"> <li>Using the Octet RED System, the affinity constant (Kd) of NRP1-his bound to biotinylated human VEGF165 was 25nM.</li> <li>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.</li> </ol> |
| <b>Molecular Mass</b>   | 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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| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method  |
| <b>Purity</b>         | ≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.   |
| <b>Storage</b>        | 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. |
| <b>Reconstitution</b> | 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

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|------------------------|--|
| <b>Gene Name</b>       | NRP1 neuropilin 1 [ Homo sapiens ]   |
| <b>Official Symbol</b> | NRP1   |
| <b>Synonyms</b>        | NRP1; neuropilin 1; neuropilin-1; CD304; NRP; VEGF165R; transmembrane receptor; vascular endothelial cell growth factor 165 receptor; NP1; BDCA4; DKFZp781F1414; DKFZp686A03134; |
| <b>Gene ID</b>         | 8829   |
| <b>mRNA Refseq</b>     | NM_001024628   |
| <b>Protein Refseq</b>  | NP_001019799   |
| <b>MIM</b>             | 602069   |
| <b>UniProt ID</b>      | O14786   |

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