

## Recombinant Human NRP1 protein, His-tagged

Cat. No. NRP1-803H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NRP1 aa. (Tyr646~Asp814 (Accession # O14786)) fused with N-terminal His tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Tyr646~Asp814
<b>Description</b>	<p>This gene encodes one of two neuropilins, which contain specific protein domains which allow them to participate in several different types of signaling pathways that control cell migration. Neuropilins contain a large N-terminal extracellular domain, made up of complement-binding, coagulation factor V/VIII, and meprin domains. These proteins also contains a short membrane-spanning domain and a small cytoplasmic domain. Neuropilins bind many ligands and various types of co-receptors; they affect cell survival, migration, and attraction. Some of the ligands and co-receptors bound by neuropilins are vascular endothelial growth factor (VEGF) and semaphorin family members. Several alternatively spliced transcript variants that encode different protein isoforms have been described for this gene.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 20.8kDa
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method)

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<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 6.5.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as lyophilized form in 10mM PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and preservative.
<b>Reconstitution</b>	Reconstitute in sterile ddH <sub>2</sub> O.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">NRP1 neuropilin 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">NRP1</a>
<b>Synonyms</b>	NP1; NRP; BDCA4; CD304; VEGF165R; transmembrane receptor; vascular endothelial cell growth factor 165 receptor; neuropilin-1
<b>Gene ID</b>	<a href="#">8829</a>
<b>mRNA Refseq</b>	<a href="#">NM_001024628.2</a>

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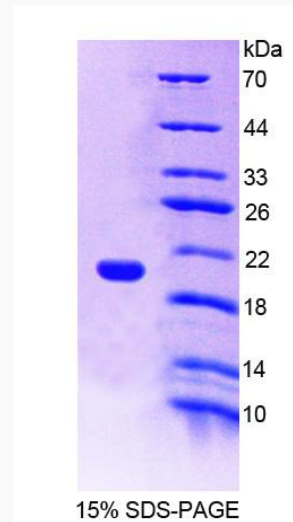
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**Protein Refseq** NP\_001019799.1

**UniProt ID** O14786

**SDS-PAGE**



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