

## Recombinant Human NRP1 Protein (Phe22-Lys644), His tagged

Cat. No. NRP1-2644H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human NRP1 (Phe22-Lys644) protein fused with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Phe22-Lys644
<b>Description</b>	Receptor involved in the development of the cardiovascular system, in angiogenesis, in the formation of certain neuronal circuits and in organogenesis outside the nervous system. It mediates the chemorepulsant activity of semaphorins. It binds to semaphorin 3A, The PLGF-2 isoform of PGF, The VEGF165 isoform of VEGFA and VEGFB. Coexpression with KDR results in increased VEGF165 binding to KDR as well as increased chemotaxis. Regulates VEGF-induced angiogenesis. Binding to VEGFA initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development). Regulates mitochondrial iron transport via interaction with ABCB8/MITOSUR.
<b>Molecular Mass</b>	66.23 kDa
<b>Purity</b>	>90 % as determined by SDS-PAGE.
<b>Notes</b>	For research use only.

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<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
<b>Storage Buffer</b>	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
<b>Reconstitution</b>	Reconstitute in sterile water for a stock solution.
<b>Shipping</b>	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	NRP1 neuropilin 1 [ Homo sapiens (human) ]
<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

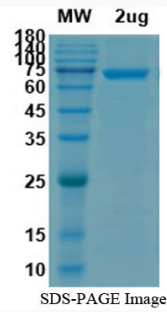
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SDS-PAGE



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