Recombinant Human NRP1 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human NRP1 aa. (Tyr646~Asp814 (Accession # O14786)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Tyr646~Asp814
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.8kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

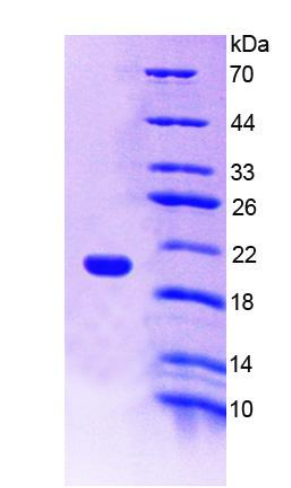
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Purity	>95%
Characteristic	The isoelectric point is 6.5.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the 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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 10mM PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and preservative.
Reconstitution	Reconstitute in sterile ddH2O.

GENE INFORMATION

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

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Protein Refseq	NP_001019799.1
UniProt ID	O14786
SDS-PAGE	 15% SDS-PAGE

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