

Recombinant Human NRP1 protein, His-tagged

Cat. No. NRP1-806H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRP1 protein (483-644aa) was fused to His-tag and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	483-644 a.a.
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	Lyophilized from sterile PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.4). 5% trehalose and 5% mannitol are added as protectants before lyophilization.
Molecular Mass	32 kDa

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AA Sequence	EWLQIDLGEKIVRGIIQGGKHRENKVFMRFKIGYSNNGSDWKMIMDDSKRKAKS FEGNNNYDTPELRTFPALSTRFIRIYPERATHGGLGLRMELLGCEVEAPTAGPTTPN GNLVDECDDDQANCHSGTGDDFQLTGTTVLATEKPTVIDSTIQSGIK
Purity	90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Storage	Store for up to 12 months at -20 to -80 centigrade as lyophilized powder. Short-term storage: Store at 2-8 centigrade for (1-2 weeks). Long-term storage: Aliquot and store at -20 to -80 centigrade for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.
Reconstitution	Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage. Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage. If a different concentration is needed for your purposes please adjust the reconstitution
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

Gene Name	NRP1
Official Symbol	NRP1
Synonyms	NP1; NRP; BDCA4; CD304; VEGF165R
Gene ID	8829
mRNA Refseq	NM_003873.7

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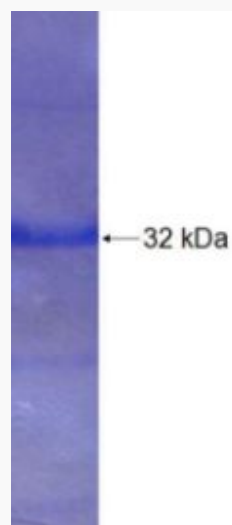
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Protein Refseq NP_003864.5

MIM 602069

UniProt ID O14786

**SDS-PAGE of NRP1-
806H**



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