

Recombinant Human NRP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NRP1-5594H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NRP1 MS Standard C13 and N15-labeled recombinant protein (NP_001019799) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<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>
Molecular Mass	71.9 kDa
AA Sequence	<p>MERGLPLLCAVLALVLPAGAFRNDKCGDTIKIESPGYLTSPGYPHSYHPSEKCEWLI QAPDPYQRIMINFNPHFDLEDRDCKYDYVEVFDGENENGHFRGKFCGKIAPPPVVS SGPFLFIKFVSDYETHGAGFSIRYEIFKRGPECSQNYTTPSGVIKSPGFPEKYPNSLE</p>

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CTYIVFAPKMSEIILEFESFDLEPDSNPPGGMFCRYDRLEIWDGFPDVGPHIGRYCG
 QKTPGRIRSSSGILSMVFYTDSAIAKEGFSANYSVLQSSVSEDFKCMEALGMESGEI
 HSDQITASSQYSTNWSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFVTAVGT
 QGAISKETKKKYYVKTYKIDVSSNGEDWITIKEGNKPVLFQGNTNPTDVVVAVFPKPL
 ITRFVRIKPATWETGISMRFEVYGCKITDYPCSGMLGMVSGLISDSQITSSNQGDRN
 WMPENIRLVTSRSGWALPPAPHSYINEWLQIDLGEEKIVRGIIQGGKHRENKVFMRK
 FKIGYSNNGSDWKMIMDDSKRKAKSFEGNNNYDTPELRTFPALSTRFIRIYPERATH
 GGLGLRMELLGCEVEAPTAGPTTPNGNLVDECDDDQANCHSGTGDDDFQLTGTTV
 LATEKPTVIDSTIQSGIKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [NRP1 neuropilin 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [NRP1](#)

Synonyms NRP1; neuropilin 1; neuropilin-1; CD304; NRP; VEGF165R; transmembrane receptor; vascular endothelial cell growth factor 165 receptor; NP1; BDCA4; DKFZp781F1414; DKFZp686A03134;

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Gene ID 8829

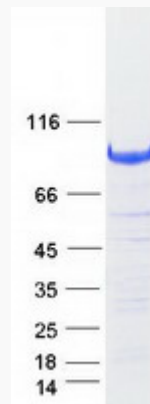
mRNA Refseq NM_001024628

Protein Refseq NP_001019799

MIM 602069

UniProt ID O14786

SDS-PAGE



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