

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	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.
Molecular Mass	71.9 kDa
AA Sequence	MERGLPLLCAVLALVLAPAGAFRNDKCGDTIKIESPGYLTSPGYPHSYHPSEKCEWLI QAPDPYQRIMINFNPHFDLEDRDCKYDYVEVFDGENENGHFRGKFCGKIAPPPVVS SGPFLFIKFVSDYETHGAGFSIRYEIFKRGPECSQNYTTPSGVIKSPGFPEKYPNSLE

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CTYIVFAPKMSEIILEFESFDLEPDSNPPGGMFCRYDRLEIWDGFPDVGPHIGRYCG
 QKTPGRIRSSSGILSMVFYTDSAIAKEGFSANYSVLQSSVSEDFKCMEALGMESGEI
 HSDQITASSQYSTNWSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFTAVGT
 QGAISKETKKKYYVKTYKIDVSSNGEDWITIKEGNKPVLFGGNTNPTDVVAVFPKPL
 ITRFVRIKPATWETGISMRFEVYGCKITDYPCSGMLGMVSGLISDSQITSSNQGDRN
 WMPENIRLVTSRSGWALPPAPHSYINEWLQIDLGEEKIVRGIIQGGKHRENKVFMRK
 FKIGYSNNGSDWKIMDDSKRKAKSFEGNNNYDTPELRTFPALSTRFIRIYPERATH
 GGLGLRMELLGCEVEAPTAGPTTPNGNLVDECDDQANCHSGTGDDFQLTGTTV
 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

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