

Recombinant Human NRP1 Protein, His-tagged

Cat. No. NRP1-396H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | Recombinant human NRP1 protein with His tag was expressed in HEK293. |
| Species | Human |
| Source | HEK293 |
| ProteinLength | 923 |
| 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. This protein has also been determined to act as a co-receptor for SARS-CoV-2 (which causes COVID-19) to infect host cells.</p> |
| Form | Lyophilized |
| Molecular Mass | 70.7 kDa |
| AA Sequence | MERGLPLLCAVLALVLPAGAFRNDKCGDTIKIESPGYLTSPGYPHSYHPSEKCEWLI QAPDPYQRIMINFNPHFDLEDRDCKYDYVEVFDGENENGHFRGKFCGKIAPPPVVS |

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SGPFLFIKFVSDYETHGAGFSIRYEIFKRGPECSQNYTTPSGVIKSPGFPEKYPNSLE
CTYIVFVPKMSEIILEFESFDLEPDSNPPGGMFCRYDRLEIWDGFPDVGPHIGRYCG
QKTPGRIRSSSGILSMVFYTD SAI AKEGFSANYSVLQSSVSEDFKCMEALGMESGEI
HSDQITASSQYSTNWSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFVTAVGT
QGAISKETKKKYVVKTYKIDVSSNGEDWITIKEGNKPVLFQGNTNPTD VVVAVFPKPL
ITRFVRIK PATWETGISMRFEVYGCKITDYPCSGMLGMV SGLISDSQITSSNQGRN
WMPENIRLVTSRSGWALPPAPHSYINEWLQIDL GEEKIVRGIIIQGGKHRENKV FMRK
FKIGYSNNGSDWKMIMDDSKRKAKSFEGNNNYDTPELRTFPALSTRFIRIYPERATH
GGLGLRMELLGCEVEAPTAGPTTPNGNLVDECDDDQANCHSGTGDDFQLTGGTTV
LATEKPTVIDSTIQSEFPTYGFNCEFGWGSHKTFCHWEHDNHVQLKWSVLTSKTGPI
QDHTGDGNFIYSQADENQKGKVARLVSPVVYSQNSAHCMTFWYHMSGSHVGTLR
VKLRYQKPEEYDQLVWMAIGHQGDHWKEGRVLLHKS LKLYQVIFEGEIGKGNLGGI
AVDDISINNHISQEDCAKPADLDKKNPEIKIDETGSTPGYE GEGEGDKNISRKPGNVL
KTLDPILITIIAMSALGVLLGAVCGVVLYCACWHNGMSERNLSALENYNFELVDGVKL
KKDKLNTQSTYSEA

| | |
|-----------------------|---|
| Purity | > 98% |
| Applications | WB; ELISA; FACS; FC |
| Stability | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use. |
| Storage | At -20 centigrade. |
| Concentration | 1 mg/mL |
| Storage Buffer | PBS (pH 7.4-7.5). Sterile-filtered colorless solution. |

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Reconstitution

Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

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;

Gene ID 8829

mRNA Refseq NM_001024628

Protein Refseq NP_001019799

MIM 602069

UniProt ID O14786

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