

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	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.
Form	Lyophilized
Molecular Mass	70.7 kDa
AA Sequence	MERGLPLLCAVLALVLAPAGAFRNDKCGDTIKIESPGYLTSPGYPHSYHPSEKCEWLI QAPDPYQRIMINFNPFDLEDKDYVEVFDGENENGHFRGKFCGKIAPPPVVS

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SGPFLFIKFVSDYETHGAGFSIRYEIFKRGPECSQNYTTPSGVIKSPGFPEKYPNSLE
 CTYIVFVPMKSEIILEFESFDLEPDSNPPGGMFCRYDRLEIWDGFPDVGPHIGRYCG
 QKTPGRIRSSSGILSMVFYTDSAIAKEGFSANYSVLQSSVSEDFKCMEALGMESGEI
 HSDQITASSQYSTNWSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFTAVGT
 QGAISKETKKKYVVKTYKIDVSSNGEDWITIKEGNKPVLFQGNTNPTDVVAVFPKPL
 ITRFVRIKPATWETGISMRFEVYGCKITDYPCSGMLGMVSGGLISDSQITSSNQGDRN
 WMPENIRLVTSRSGWALPPAPHSYINEWLQIDLGEEKIVRGIIIQGGKHRENKVFMRK
 FKIGYSNNGSDWKMMIMDDSKRKAKSFEGNNNYDTPELRTFPALSTRFIRIYPERATH
 GGLGLRMELLGCEVEAPTAGPTTPNGNLVDECDDQANCHSGTGDDFQLTGTTV
 LATEKPTVIDSTIQSEFPTYGFNCEFGWGSHKTFCHWEHDNHVQLKWSVLTSKTGPI
 QDHTGDGNFIYSQADENQKGKVARLVSPVVYSQNSAHCMTFWYHMSGSHVGTLR
 VKLRYQKPEEYDQLVWMAIGHQGDHWKEGRVLLHKSLLYQVIFEGEIGKGNLGGI
 AVDDISINNHSQEDCAKPADLDKKNPEIKIDETGSTPGYEGEGEEDKNISRKPGNVL
 KTLDPILITIIAMSALGVLLGAVCGVVLYCACWHNGMSERNLSALENNFELVDGVKL
 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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