

Product datasheet for PH303508

Neuropilin 1 (NRP1) (NM_001024628) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NRP1 MS Standard C13 and N15-labeled recombinant protein (NP_001019799)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203508
Predicted MW:	71.9 kDa
Protein Sequence:	>RC203508 protein sequence Red=Cloning site Green=Tags(s)

MERGLPLLCAVLALVLPAGAFRNDKCGDTIKIESPGYLTPSGYPHSYHPSEKCEWLIQAPDPYQRIMIN
FNPHFDLEDRDCKYDYVEVFDGENENGFHFRGKFCGKIAPPPVSSGPFLLFIKFSYDYETHGAGFSIRYEI
FKRGPECSQNYTTPSGVIKSPGFPEKYPNSLECTYIVFAPKMSEIILEFESFDLEPDSNPPGGMFCRYDR
LEIWDGFPDVGPHIGRYCGQKTPGRIRSSSGILSMVFYTDIAIAKEGFSANYSVLQSSVSEDFKCMALG
MESGEIHSQITASSQYSTNWSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFVTAVGTQGAISKETK
KKYYVKTYKIDVSSNGEDWITIKENKPVLFQGNTNPTDVVAVFPKPLITRFVRIKATWETGISMRFE
VYGCKITDYPGSGMLGMVSLISDSQITSSNQGDRNWMPENIRL VTSRSGWALPPAPHSYINEWLQIDLG
EEKIVRGI IQGKHKRENKVFMRKFKIGYSNNGSDWKIMDDSKRKAJSFEGNNNYDTPELRTPALSTR
FIRIYPERATHGGLGLRMELLGCEVEAPTAGPTTPNGNLVDECDQANCSGTGDDFQLTGTTVLATE
KPTVIDSTIQSGIK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001019799
RefSeq Size:	2478



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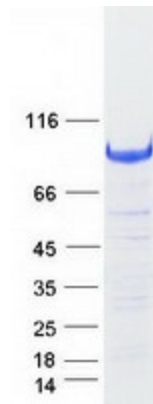
RefSeq ORF:	1932
Synonyms:	BDCA4; CD304; NP1; NRP; VEGF165R
Locus ID:	8829
UniProt ID:	O14786 , Q68DN3 , O14786-2 , C9JJV3
Cytogenetics:	10p11.22

Summary: 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. [provided by RefSeq, Nov 2020]

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Axon guidance

Product images:



Coomassie blue staining of purified NRP1 protein (Cat# [TP303508]). The protein was produced from HEK293T cells transfected with NRP1 cDNA clone (Cat# [RC203508]) using MegaTran 2.0 (Cat# [TT210002]).