

Recombinant Mouse Nrp1 Protein, Myc/DDK-tagged

Cat. No. Nrp1-4502M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length neuropilin 1 (Nrp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Receptor involved in the development of the cardiovascular system, in angiogenesis, in the formation of certain neuronal circuits and in organogenesis outside the nervous system. Mediates the chemorepulsant activity of semaphorins. Binds to semaphorin 3A, the PLGF-2 isoform of PGF, the VEGF165 isoform of VEGFA and VEGFB. Coexpression with KDR results in increased VEGF165 binding to KDR as well as increased chemotaxis. Regulates VEGF-induced angiogenesis. Binding to VEGFA initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development. Regulates mitochondrial iron transport via interaction with ABCB8/MITOSUR.
Molecular Mass	103.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Nrp1 neuropilin 1 [Mus musculus (house mouse)]
Official Symbol	Nrp1
Synonyms	NRP1; neuropilin 1; neuropilin-1; A5 protein; transmembrane receptor; Neuropilin-1 precursor (A5 protein); Nrp; NP-1; Npn1; NPN-1; C530029I03
Gene ID	18186
mRNA Refseq	NM_008737
Protein Refseq	NP_032763
UniProt ID	P97333