

# Recombinant Mouse NRP1 protein, Mouse IgG2a Fc-tagged, low endotoxin

**Cat. No.** NRP1-329M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse NRP1 protein (Phe22-Pro856)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	835
<b>Description</b>	Neuropilin-1 (NRP1) is also known as Vascular endothelial cell growth factor 165 receptor (VEGF165R), CD antigen CD304, which belongs to the neuropilin family. The membrane-bound isoform 1 is a 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. It mediates the chemorepulsant activity of semaphorins. It binds to semaphorin 3A, The PLGF-2 isoform of PGF, The VEGF-165 isoform of VEGF and VEGF-B. Coexpression with KDR results in increased VEGF-165 binding to KDR as well as increased chemotaxis. It may regulate VEGF-induced angiogenesis. The soluble isoform 2 binds VEGF-165 and appears to inhibit its binding to cells.
<b>Form</b>	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
<b>Molecular Mass</b>	The protein has a calculated MW of 120.5 kDa. The protein migrates as 125 kDa

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under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin** Less than 0.1 EU per ug by the LAL method.

**Purity** >90% as determined by SDS-PAGE.

**Storage**

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20 centigrade to -70 centigrade for 12 months in lyophilized state;
- 70 centigrade for 3 months under sterile conditions after reconstitution.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

**Gene Name** [NRP1](#)

**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](#)

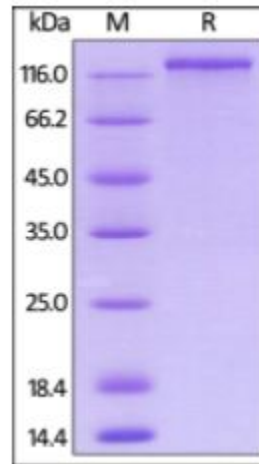
**mRNA Refseq** [NM\\_008737](#)

**Protein Refseq** [NP\\_032763](#)

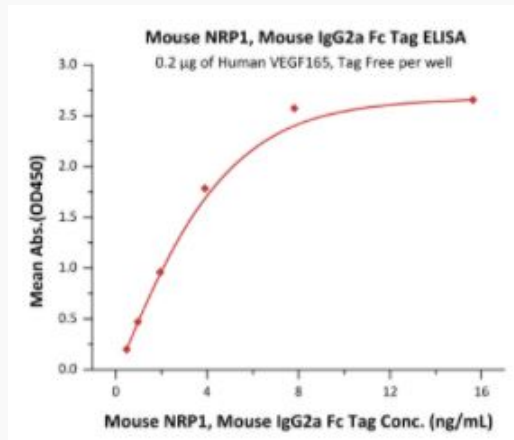
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**UniProt ID**
**P97333**
**SDS-PAGE of NRP1-329M**


Mouse NRP1, Mouse IgG2a Fc Tag, low endotoxin on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity of NRP1-329M**


Immobilized Human VEGF165, Tag Free at 2 µg/mL (100 µL/well) can bind Mouse

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NRP1, Mouse IgG2a Fc Tag with a linear range of 0.5-4 ng/mL (QC tested).

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