

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

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

SPECIFICATION

Product Overview	Recombinant Mouse NRP1 protein (Phe22-Pro856)(low endotoxin), fused to Mouse IgG2a Fc tag at C-terminus, was expressed in human 293 cells (HEK293).
Species	Mouse
Source	HEK293
ProteinLength	835
Description	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.
Form	Lyophilized from 0.22 um filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5, 10% trehalose.
Molecular Mass	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.

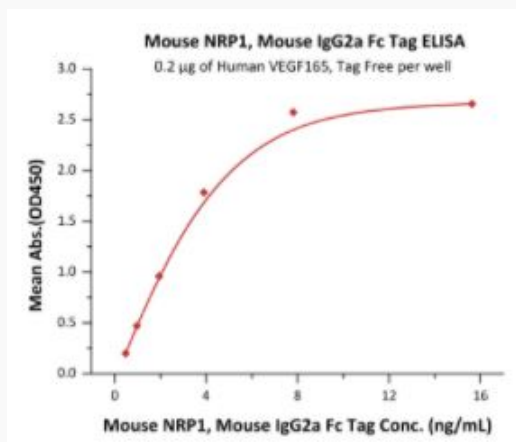
GENE INFORMATION

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

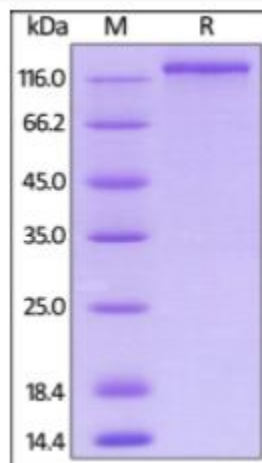
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UniProt ID
P97333
Bioactivity of NRP1-329M


Immobilized Human VEGF165, Tag Free at 2 µg/mL (100 µL/well) can bind Mouse NRP1, Mouse IgG2a Fc Tag with a linear range of 0.5-4 ng/mL (QC tested).

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

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protein is greater than 90%.

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