

Recombinant Rat NRP1 Protein (Phe22-Ala810 & Ser829-Asp854), C-hFc and 6×His-tagged

Product Information

Cat	IMP-9839
Official Symbol	Nrp1
Product Overview	Recombinant Rat Neuropilin-1 protein (Phe22-Ala810 & Ser829-Asp854) with a Human IgG1 (Pro100-Lys330) Fc tag and 6×His tag at C-terminus was expressed in Mouse myeloma cell line.
Description	<i>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.</i>
Expression System	Mouse myeloma cell line
Species	Rat
Tag	C-hFc and 6×His
Predicted N Terminal	Phe22
Form	Lyophilized from a 0.2 µm filtered solution in Citrate Phosphate and NaCl.
Molecular Mass	Predicted Molecular Mass: 119 kDa (monomer) SDS-PAGE: 130-150 kDa, reducing conditions
Protein length	Phe22-Ala810 & Ser829-Asp854
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized rrNpn-1/Fc Chimera at 2 µg/mL (100 µL/well) can bind rhVEGF165 in the presence of 2 µg/mL of heparin with an apparent KD
Endotoxin	
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Notes	Disulfide-linked homodimer

Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution

Reconstitute at 100 µg/mL in sterile PBS.