

Recombinant Human Neuropilin-1/NRP1/VEGF165R/CD304 Protein

Catalog No.: RP00137 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 8829 014786

Tags C-His

Synonyms

BDCA4;CD304;NP1;NRP;VEGF165R;Neur opilin-1;NRP1

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

70.79 kDa 90-110 kDa

Endotoxin

 $< 0.1 \; \text{EU/}\mu\text{g}$ of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

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.

Basic Information

Description

Recombinant Human Neuropilin-1/NRP1/VEGF165R/CD304 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Phe22-Lys644) of human Neuropilin-1/NRP1 (Accession #NP_001019799) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human NRP1 Protein at 2 μ g/mL (100 μ L/well) can bind NRP1 Rabbit pAb with a linear range of 1.9-98.96 ng/mL.|2.Measured by its binding ability in a functional ELISA.Immobilized human VEGF165 at 1μ g/mL (25 μ L/well) can bind Human CD304 with a linear range of 0.46-15.8ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

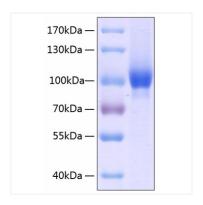
Avoid repeated freeze/thaw cycles.

Operational Notes

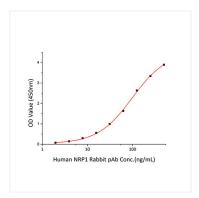
For your safety and health, please wear a lab coat and disposable gloves for handling.

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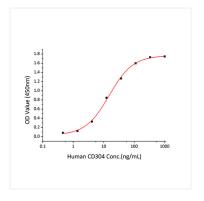
Validation Data



Recombinant Human Neuropilin-1/NRP1/VEGF165R/CD304 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human NRP1 Protein at $2\mu g/mL$ (100 $\mu L/well$) can bind NRP1 Rabbit pAb with a linear range of 1.9-98.96ng/mL.



Immobilized human VEGF165 at 1 μ g/mL (25 μ L/well) can bind Human CD304 with a linear range of 0.46-15.8ng/mL.