

Recombinant Human Neuropilin-2/NRP2/VEGF165R2 Protein

Catalog No.: RP00225 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	8828	O60462

Tags

C-His

Synonyms

NRP2;NP2;NPN2;PRO2714;VEGF165R2;n europilin-2

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Neuropilin-2 (NRP-2) is a 120 kDa, type I transmembrane (TM) glycoprotein that is related to the semaphorin receptor now known as Neuropilin-1. Neuropilin-2 (NRP-2) binds to SEMA3C protein {sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C} and SEMA3F protein {sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F}, and interacts with vascular endothelial growth factor (VEGF). NRP-2 is well known for its role in facilitating axonal guidance during the development of the neuronal system, and additionally, it is also expressed in vascular endothelial cells and lymphatic endothelium where it affects proliferation, migration, angiogenesis, as well as formation of small lymphatic vessels and capillaries. Nearly all tumor cells express neuropilins and NRP-2 is predominantly expressed in neuronal tumors and melanomas.

Basic Information

Description

Recombinant Human Neuropilin-2/NRP2/VEGF165R2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Tyr855) of human Neuropilin 2/NRP2 (Accession #NP_003863.2) fused with a 6xHis tag at the C-terminus.

Bio-Activity

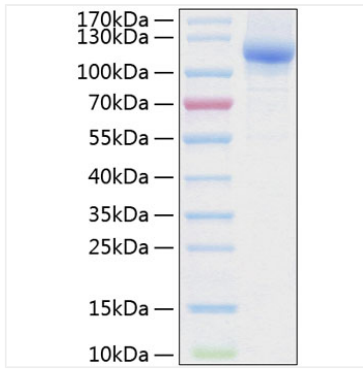
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human
Neuropilin-2/NRP2/VEGF165R2 Protein was
determined by SDS-PAGE with Coomassie
Blue, showing a band at 110-120 kDa.