

Recombinant Human Neuropilin 2 protein (rFc Tag)(HPLC verified)

Catalog Number: Eg3125

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE
>90 %, SEC-HPLC**Tag:**
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC**Endotoxin Level:**
<0.1 EU/ µg protein, LAL method**Source:**
HEK293-derived Human Neuropilin 2 protein Arg21-Pro864 (Accession# O60462-1) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**
8828**Accession:**
O60462-1**Predicted Molecular Mass:**
121.1 kDa**SDS-PAGE:**
120-140 kDa, reducing (R) conditions**Formulation:**
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

NRP2 (Neuropilin-2) is a type I transmembrane glycoprotein belonging to the neuropilin family. It acts as a multifunctional receptor that binds to a variety of ligands, including vascular endothelial growth factor (VEGF) and signaling proteins (e.g., Sema3C and Sema3F), and plays important roles in neurodevelopment, angiogenesis, and immunomodulation. NRP2 is a cell surface molecule that is widely present in pancreatic cancer cells and is upregulated in various malignant tumors, such as hepatocellular carcinoma, gastric carcinoma, thyroid carcinoma and prostate cancer. It plays a crucial role in tumor cell growth, migration, invasion and angiogenesis, and monoclonal antibodies against NRP2 have been proposed as a potential strategy for pancreatic cancer treatment.

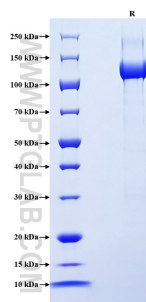
References

1. Zhao Z, et al. Adv Sci (Weinh). 2023;10(30):e2303872.
2. Luo S, et al. FASEB J. 2022;36(2):e22079.
3. Kang Y, et al. Am J Transl Res. 2021;13(8):8938-8951.
4. Schulz A, et al. Front Oncol. 2020;9:1461.
5. Luo X, et al. Cell Biosci. 2020;10:113.

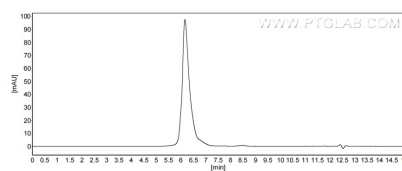
Synonyms

NRP2, Neuropilin-2

Selected Validation Data



Purity of Recombinant Human Neuropilin 2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



The purity of Human Neuropilin 2 was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

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