

For Research Use Only

Recombinant Rat VEGFR2/KDR protein (His Tag)



Catalog Number: Eg1165

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Rat VEGFR2 protein Ala20-Glu760 (Accession# O08775) with a His tag at the C-terminus.

GeneID:

25589

Accession:

O08775

Predicted Molecular Mass:

84.1 kDa

SDS-PAGE:

90-140 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

VEGFR2, also named as KDR, FLK1 and CD309, is one of the two tyrosine kinase receptors involved in angiogenesis. VEGFR2 is mainly distributed in vascular endothelial cells, lymphatic endothelial cells and embryonic precursor cells, and can bind to VEGF-A, VEGF-C and VEGF-D. When activated by its ligand VEGF, VEGFR2 promotes neighbouring vessel formation to facilitate the delivery of growth factors, nutrients and oxygen for cancer proliferation, migration, metastasis and survival. VEGF and VEGFR2 mediated angiogenesis contributes to the aggressive natures and leads to high mortality rate in gastric cancer.

References

1. Xinrong Wang. et al. (2020) Front Cell Dev Biol. 8:599281.
2. Michael Simons. et al. (2016) Nat Rev Mol Cell Biol. 17(10):611-25.
3. Jing Yu. et al. (2016) J Hematol Oncol. 9(1):111.
4. Seong Ah Park. et al. (2018) BMB Rep. 51(2):73-78.

Synonyms

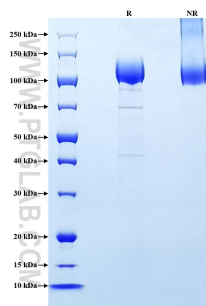
Kdr, CD309, FLK1, Vegfr 2, VEGFR2

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

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Selected Validation Data



Purity of Recombinant Rat VEGFR2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.