

Recombinant Rat VEGF164 protein (His Tag)

Catalog Number: Eg0941

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 VEGF164 protein Ala27-Arg190 (Accession# P16612-2) with a His tag at the C-terminus.

GeneID:

83785

Accession:

P16612-2

Predicted Molecular Mass:

20 kDa

SDS-PAGE:

22-27 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

VEGFA, also named as VEGF or VPF, belongs to the PDGF/VEGF growth factor family. It is a growth factor active in angiogenesis, vasculogenesis and endothelial cell growth. VEGFA induces endothelial cell proliferation, promotes cell migration, inhibits apoptosis and induces permeabilization of blood vessels. It binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin. Defects in VEGFA are associated with microvascular complications of diabetes type 1 (MVC1). Alternately spliced isoforms of 121, 145, 148, 165, 183, 189, and 206 amino acids (aa) have been identified in humans, with 120, 144, 164 and 188 aa isoforms found in rat and mouse.

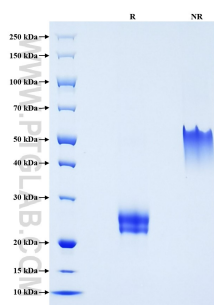
References

1. Conn, G. et al. (1990) J. Biol. Chem. 87:2628.
2. Ishii, H. et al. (2001) Arch. Oral Biol. 46:77.
3. Byrne, A.M. et al. (2005) J. Cell. Mol. Med. 9:777.
4. Robinson, C.J. and Stringer, S.E. (2001) J. Cell. Sci. 114:853.

Synonyms

Vegfa, Vegf, VEGF164

Selected Validation Data



Purity of Recombinant Rat VEGF 164 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.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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