

For Research Use Only

Recombinant Human VEGF121 protein (Myc tag, His tag)



Catalog Number: Eg0192

Basic Information

ED50:
300-1230 ng/mL

GeneID:
7422

Species:
Human

Accession:
P15692

Purity:
>90 %, SDS-PAGE

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human VEGF121 protein Ala27-Arg147 (Accession# P15692) with a Myc tag and a His tag at the C-terminus.

Predicted Molecular Mass:
16.9 kDa

SDS-PAGE:
20-24 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Immobilized Human VEGF121 (Myc tag, His tag) at 2 μ g/mL (100 μ L/well) can bind Human VEGFR1 (His tag) with a linear range of 300-1230 ng/mL.

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

Vascular endothelial growth factor (VEGF), is a signal protein produced by cells that stimulates vasculogenesis and angiogenesis. It is part of the system that restores the oxygen supply to tissues when blood circulation is inadequate such as in hypoxic conditions. Serum concentration of VEGF is high in bronchial asthma and diabetes mellitus. The activities of VEGF are not limited to the vascular system; VEGF plays a role in normal physiological functions such as bone formation, hematopoiesis, wound healing, and development. Disruption of this gene in mice resulted in abnormal embryonic blood vessel formation. VEGF is upregulated in many known tumors and its expression is correlated with tumor stage and progression. VEGF exists in several isoforms with different molecular weights and biological properties containing 121, 145, 165, 189, and 206 amino acids.

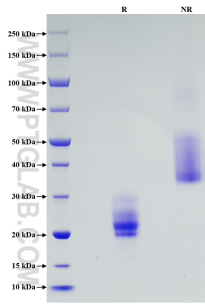
References

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2. Ferrara N. et al. (1992). Endocr Rev. 13: 18-32.
3. Boockock CA. et al. (1995). J Natl Cancer Inst. 87: 506-516.
4. Sunderkotter C. et al. (1994). Int J Cancer. 55: 410-422.
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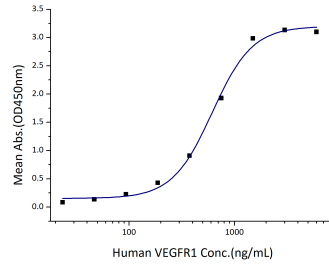
Synonyms

MVCD1, VEGF121, VEGFA, VPF

Selected Validation Data



Purity of Recombinant Human VEGF121 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.



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

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