For Research Use Only

Recombinant Human VEGF121 protein (His Tag)

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Catalog Number: Eg1263

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

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# P15692-9) with a His tag at the C-terminus.

GeneID:
7422

Accession:
P15692-9

Predicted Molecular Mass:
15.1 kDa

SDS-PAGE:

Formulation:
Lyophilized from sterile 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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 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 (MVCD1).

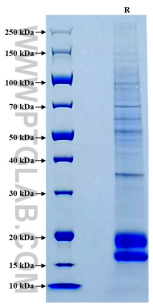
References

1. Apte, Rajendra S et al. Cell vol. 176,6 (2019): 1248-1264.
2. Carmeliet, P et al. Nature vol. 380,6573 (1996): 435-9.
3. Pérez-Gutiérrez, Lorena, and Napoleone Ferrara. Nature reviews. Molecular cell biology vol. 24,11 (2023): 816-8

Synonyms

VEGF, VEGFA, L-VEGF, N-VEGF, Vascular Endothelial Growth Factor

Selected Validation Data



Purity of Recombinant Human VEGF121 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.