

For Research Use Only

Recombinant Human VEGF-B protein (hFc Tag) (HPLC verified)



Catalog Number: Eg0123

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
hFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human VEGF-B protein Pro22-Ala207 (Accession# P49765-1) with a human IgG1 Fc tag at the N-terminus.

GeneID:
7423

Accession:
P49765-1

Predicted Molecular Mass:
45.4 kDa

SDS-PAGE:
40 kDa and 50-65 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

Vascular endothelial growth factor B (VEGFB) is a member of the PDGF/VEGF growth factor family. It is produced as a secreted homodimer. VEGF-B binds to VEGF receptor-1 (Flt-1) and regulates plasminogen activator activity in endothelial cells. It also binds to Neuropilin-1 (NRP1). There are two splice isoforms, VEGF-B (167) and VEGF-B (186), which have identical NH(2)-terminal cystine knot growth factor domains but differ in their COOH-terminal domains. VEGF-B (167) has a heparin-binding domain so can bind to cell-surface heparan sulphate proteoglycans upon secretion, while VEGF-B (186) does not contain the heparin-binding domain.

References

1. B Olofsson, et al. (1998) Proc Natl Acad Sci U S A. 95(20):11709-14.
2. T Makinen, et al. (1999) J Biol Chem. 274(30):21217-22.
3. Xuri Li. (2010) Cell Res. 20(7):741-4.

Synonyms

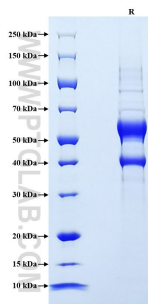
VEGFB, VEGF B, VEGF related factor, VEGF-related factor, VRF

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

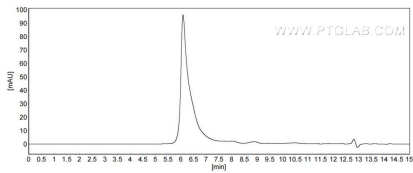
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Selected Validation Data



Purity of Recombinant Human VEGF-B 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 VEGF-B was greater than 90% as determined by SEC-HPLC.