Human VEGF121, His Tag, E. coli

Catalog Number	LDG060PHE
Package	5 μg / 20 μg / 100 μg / Customized package

For full product information, images and publications, please visit our website.

Specifications

Species of Origin

Human

Expression system

Escherichia coli

Affinity Tag

His Tag (C-term)

Buffer

Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.

Purity

>95% as determined by SDS-PAGE analysis.

Molecular weight

The protein has a calculated MW of 15.00 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce proliferation in HUVEC cells. The ED_{50} for this effect is <2.5 ng/mL.

Endotoxin level

<0.1 EU per 1 μg of the protein by the LAL method.

Form

Lyophilized

Background

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Background

Vascular Endothelial Growth Factors 121(VEGF121) is one of five VEGF splice variants of 121, 145, 165, 183, 189, and 206 amino acids (aa) in length. VEGF121 is the only VEGF which lacks heparin-binding activity and freely diffusible. VEGF binds the type I transmembrane receptor tyrosine kinases VEGF R1 (also called Flt-1) and VEGF R2 (Flk-1 /KDR) on endothelial cells to activate signal transduction and regulate both physiological and pathological angiogenesis.

Synonyms

Vascular endothelial Growth Factors A, VEGF-A, Vascular permeability factor, VPF

Uniprot ID

#PDB: 3V2A_A

Sequence Note

Ala1-Arg121

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Image

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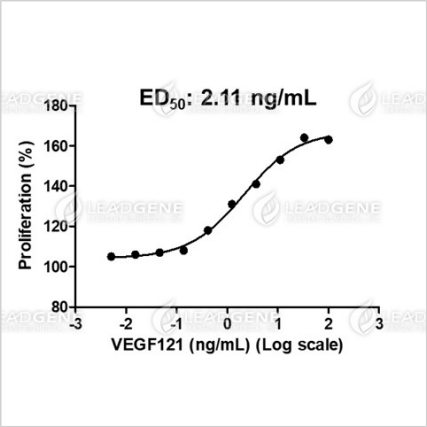
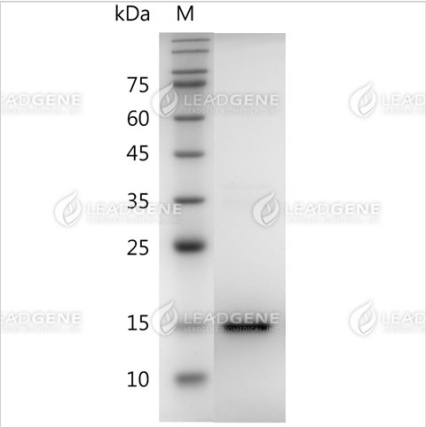


Human VEGF121, His Tag, E. coli (LDG060PHE) induced HUVEC cell proliferation, with the ED50 at 2.11 ng/mL.



SDS-PAGE analysis of recombinant human VEGF121.

Disclaimer : For Research Use or Further Manufacturing Only.

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