

A Reliable Research Partner in Life Science and Medicine

Recombinant Mouse VEGF121 protein(His Tag)

Catalog Number: PKSM041502

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Mouse

Source E.coli-derived Mouse VEGF121 protein Ala 205-Lys 318, with an C-terminal His

Calculated MW 15.0 kDa Observed MW 18 kDa Accession Q00731

Bio-activity Measure by its ability to induce proliferation in HUVEC cells. The ED₅₀ for this effect

is <3 ng/mL.

Properties

> 95 % as determined by reducing SDS-PAGE. **Purity**

Endotoxin < 0.1 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

This product is provided as lyophilized powder which is shipped with ice packs. Shipping

Lyophilized from sterile PBS,pH 8.0. **Formulation**

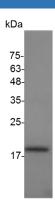
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Please refer to the printed manual for detailed information. Reconstitution

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Elabscience Bionovation Inc.

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Human VEGF121; also known as Vascular endothelial growth factor A; VEGFA; Vascular permeability factor; VPF and VEGF; is a homodimeric; heparin-binding glycoprotein which belongs to the platelet-derived growth factor (PDGF)/ vascular endothelial growth factor (VEGF) family. VEGF-A is a glycosylated mitogen that specifically acts on endothelial cells and has various effects; including mediating increased vascular permeability; inducing angiogenesis; vasculogenesis; permeabilization of blood vessels and endothelial cell growth; increasing microvascular permeability; promoting cell migration and inhibiting apoptosis. Alternatively spliced transcript variants of VEGF-A encod either secreted or cell-associated isoforms. The lymphangiogenesis may be promoted by upregulation of VEGF121; which may in turn act in part via induction of VEGF-C. It binds to the FLT1/VEGFR1 and KDR/VEGFR2 receptors; heparan sulfate and heparin. NRP1/Neuropilin-1 binds isoforms VEGF-165 and VEGF-145. Isoform VEGF165B binds to KDR but does not activate downstream signaling pathways; does not activate angiogenesis and inhibits tumor growth.

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