VEGFA
Recombinant Human VEGF121b / VEGF-A

Catalog No.	CRH730A CRH730B	**Quantity:**	20 µg 50 µg

Alternate Names: Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF

Description: Vascular endothelial growth factor (VEGF), also known as vascular permeability factor (VPF) and VEGF-A, is a potent mediator of both angiogenesis and vasculogenesis in the fetus and adult. It is a member of the platelet-derived growth factor/vascular endothelial growth factor family and often exists as a disulfide-linked homodimer. VEGF-A protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, inhibiting apoptosis and tumor growth. VEGF-A protein is also a vasodilator that increases microvascular permeability, thus it was originally referred to as vascular permeability factor.

UniProt ID: P15692-9

Protein Construction: A DNA sequence encoding the human VEGF 121 isoform b (Met1-Asp147,with last 6 amino acids switch from CDKPRR to SLTRKD) was expressed.

Source: HEK293 Cells

Formulation: Lyophilized from sterile PBS, pH 7.4.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Molecular Weight: The rhVEGF consists of 121 aa with a predicted MW of 14 kDa and migrates at ~20 kDa and ~16 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin Level: < 1.0 EU per µg protein as determined by the LAL method.

Biological Activity: In a functional ELISA, immobilized human VEGF121b at 10µg/mL (100µL/well) can bind human VEGFR2-Fc, the EC50 of human VEGFR2-Fc is 0.06-0.1 µg/mL.

Predicted N-terminal: Ala 27

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for complete reconstitution.

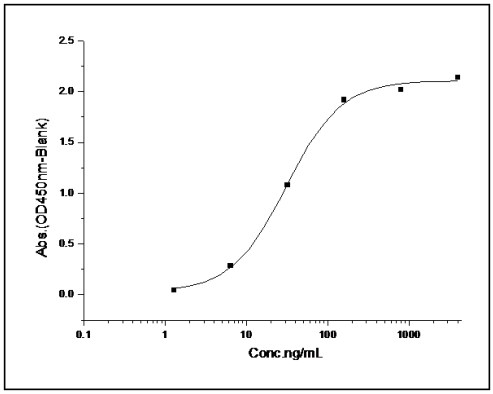
Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C
After reconstitution, store working aliquots at -20°C to -80°C.
Avoid repeated freeze-thaw cycles.

Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com

Measured by its binding ability in a functional ELISA. Immobilized human VEGF121b(Cat: 15692-HNAH) at 10µg/mL (100µL/well) can bind human VEGFR2-Fc, the EC50 of human VEGFR2-Fc is 0.06-0.1 µg/mL.



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