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VEGFA
Recombinant Human VEGF 183 / VEGF-A

Catalog No.	CRH373A CRH373B	**Quantity:**	10 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 (PDGF)/vascular endothelial growth factor (VEGF) 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

Accession Number: P15692-3

Protein Construction: A DNA sequence encoding the human VEGF 183 isoform (P15692-3) (Met1-Arg209) was expressed.

Source: Baculovirus-Insect Cells

Molecular Weight: The recombinant human VEGF 183 isoform consists of 183 amino acids and has a predicted molecular mass of 21 kDa.

Formulation: Lyophilized from sterile pH 7.92 100 mM glycine , 10 mM NaCl.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Purity: > 95 % as determined by SDS-PAGE

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

Biological Activity: Measured in a cell proliferation assay using human umbilical vein endothelial cells (HUVEC). The ED50 for this effect is typically 50-210 ng/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.

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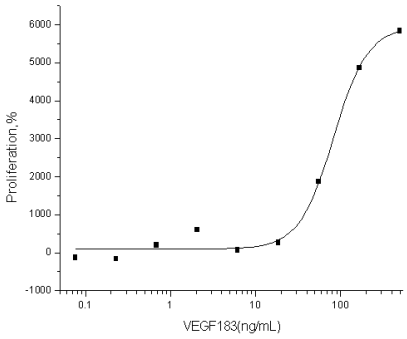

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