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VEGFA
Recombinant Human VEGF 165, Animal Free

Catalog No.	CRV000A-AF	**Quantity:**	2 µg
	CRV000B-AF		10 µg
	CRV000C-AF		1.0 mg
	CRV000D-AF		100 µg

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

Description: Vascular Endothelial Growth Factor is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells. VEGF-A is also a vasodilator and increases microvascular permeability and was originally referred to as vascular permeability factor. There are multiple isoforms of VEGF-A that result from alternative splicing of mRNA from a single, 8-exon VEGFA gene, with VEGF-165 being the most abundant. The VEGF-165 isoform is a secreted protein that acts on receptors VEGFR-1 and VEGFR-2 to modulate endothelial cell proliferation and angiogenesis.

Gene ID: 7422

UniProt ID: P15692-4

Source: *E. coli*
Manufactured without Animal-derived products, in an Animal Free facility.

Molecular Weight: 19.3/38.6 kDa (166/332 aa), dimer

Formulation: Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).

Purity: ≥ 95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤1 EU/µg of protein by kinetic LAL analysis

Biological Activity: ED_{50} ≤ 10 ng/ml, determined by dose-dependent cell proliferation assay using human umbilical vein endothelial cells (HUVEC).

Specific Activity: 1.0×10^5 units/mg

Amino Acid Sequence: MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CCNDEGLECV PTEESNITMQ IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQENPCGP CSERRKHLFV QDPQTCKCSC KNTDSRCKAR QLELNERTCR CDKPRR

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/ml. **DO NOT VORTEX.** Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.

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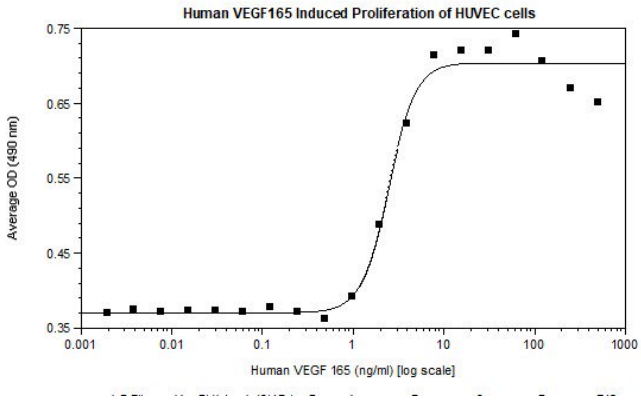
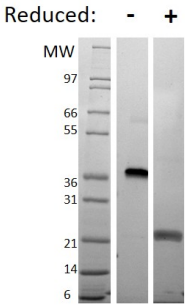
Storage & Stability: Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year.

Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. **Avoid repeated freeze-thaw cycles.**





Human VEGF-165 Gel

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human VEGF-165 is predicted to be a homodimer with a predicted MW of 38.6 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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