

VEGFA

Recombinant Human VEGF 165

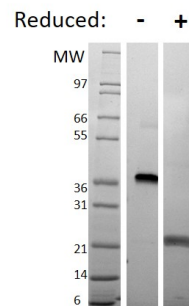
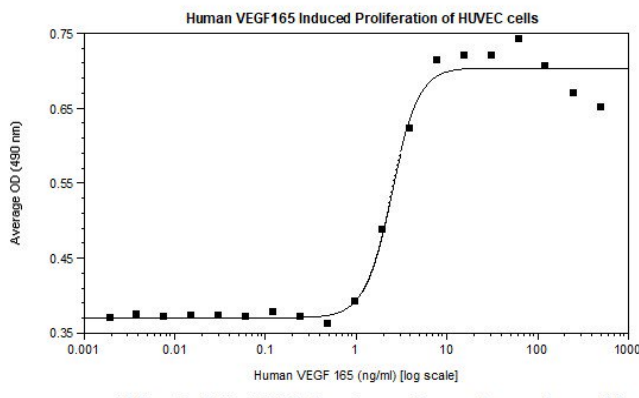
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|-----------------------------|---|------------------|-----------------------------------|
| Catalog No. | CRV000A CRV000B CRV000C CRV000D | Quantity: | 2 µg 10 µg 1.0 mg 100 µg |
| Alternate Names: | Vascular endothelial growth factor A, VEGF-A, Vascular 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: | <i>E. coli</i> | | |
| 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 ⁶ units/mg | | |
| Amino Acid Sequence: | MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRGG CCNDEGLECV PTEESNITMQ IMRIKPHQQG 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. | | |



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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