

VEGFA

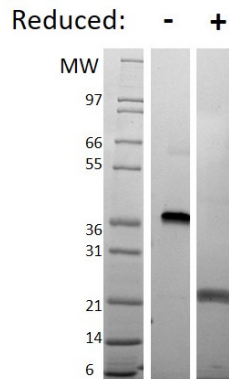
Recombinant Human Vascular Endothelial Growth Factor 165

Catalog No.	CRV000A CRV000B CRV000C CRV000D	Quantity:	2 µg 10 µg 1.0 mg 500 µg
Alternate Names:	MVEGF, VCD1, VPF, vascular endothelial growth factor A, vascular permeability factor		
Description:	<p>Vascular Endothelial Growth Factor is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells, and promotes angiogenesis and vascular permeability. Expressed in vascularized tissues, VEGF plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicates VEGF in the induction of tumor metastasis and intra-ocular neovascular syndromes. VEGF signals through the three receptors; fms-like tyrosine kinase (flt-1), KDR gene product (the murine homolog of KDR is the flk-1 gene product) and the flt4 gene product.</p> <p>Recombinant Human VEGF 165 is a disulfide-linked non-glycosylated homodimeric protein consisting of two 166 amino acid polypeptide chains.</p>		
Gene ID:	7422		
Protein Accession No:	P15692-4		
Source:	<i>E. coli</i>		
Molecular Weight:	19.3 kDa (monomer)/ 38.6 kDa (dimer)		
Formulation:	Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA).		
Purity:	> 95% by HPLC and SDS-PAGE		
Endotoxin Level:	≤1 EU/µg of protein by kinetic LAL analysis		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by dose-dependent cell proliferation assay using human umbilical vein endothelial cells (HUVEC) is typically 1-6 ng/ml.		
Specific Activity:	1.0 × 10 ⁶ units/mg		
Amino Acid Sequence:	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR		
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 dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store desiccated at -20°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.**

Figure: 1 µg run under (+) reducing conditions and (-) non-reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue.



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