

# Recombinant Human Vascular Endothelial Growth Factor A, His-tagged

**Cat. No.** VEGFA-868H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant human VEGFA protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. MW: 21.3 kDa.

**Species**      Human

**Source**      E.coli

**ProteinLength**      207-371aa

**Description**      VEGFA is homodimeric, heparin-binding glycoprotein involved in both angiogenesis and vasculogenesis. VEGFA is expressed as multiple alternately spliced isoforms of VEGF121, 165, 189 and 206. VEGFA binds to the receptor tyrosine kinases VEGF R1 (Flt-1) and VEGF R2 (KDR/Flk-1) to activate signal transduction and regulate both physiological and pathological angiogenesis.

**Form**      Liquid. In 20mM Tris-HCl(pH8.5), 50%glycerol, 5mM DTT, 200mM NaCl, 2mM EDTA.

**Molecular Mass**      21.3 kDa (185aa), conformed by MALDI-TOF.

**AA Sequence**      MGSSHHHHHH SGLVPRGSH APMAEGGGQN HHEVVKFMDV YQRSYCHPIE  
 TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI  
 MRIKPHQQQH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ  
 DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR

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<b>Purity</b>	> 90% by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	< 1.0 eu per 1 µg of protein (determined by Ial method)>

## GENE INFORMATION

<b>Gene Name</b>	VEGFA vascular endothelial growth factor A [ Homo sapiens ]
<b>Official Symbol</b>	VEGFA
<b>Synonyms</b>	VEGFA; vascular endothelial growth factor A; vascular endothelial growth factor , VEGF; VEGF A; VPF; vascular permeability factor; VEGF; MVCD1; MGC70609;
<b>Gene ID</b>	7422
<b>mRNA Refseq</b>	NM_001025366
<b>Protein Refseq</b>	NP_001020537
<b>UniProt ID</b>	P15692
<b>Chromosome Location</b>	6p12
<b>Pathway</b>	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-

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cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem;

**Function**

cell surface binding; chemoattractant activity; cytokine activity; cytokine activity; extracellular matrix binding; fibronectin binding; growth factor activity; growth factor activity; heparin binding; heparin binding; platelet-derived growth factor receptor binding; protein binding; protein heterodimerization activity; protein homodimerization activity; receptor agonist activity; vascular endothelial growth factor receptor 1 binding; vascular endothelial growth factor receptor 2 binding; vascular endothelial growth factor receptor binding;

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