

# Active Recombinant Human VEGFA, Isoform 165, His-tagged, Biotinylated

**Cat. No.** VEGFA-711H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human VEGF165, also known as VEGF, is expressed as a 176-amino acid protein consisting of the region Ala27- Arg191 of VEGF (UniProt Accession #P15692-4, isoform VEGF165) and a C-terminal His-tag. It contains 1 potential sites for N-linked glycosylation and exists as a dimer under non-reducing condition.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	176-o a.a.
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Binds its receptors (FLT1, KDR) and anti-VEGF monoclonal antibodies with high affinity (KD< 10 nM as measured by ELISA). Stimulates HUVEC (human umbilical vein endothelial cells) proliferation and certain tumor cell growth.
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 20.5; Estimated by SDS-PAGE under reducing condition (kDa): ~30 (probably due to glycosylation)
<b>AA Sequence</b>	APMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPSCVPLMRC GGCCNDEGLECVPTES NITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRAR QENPCGPCSERRKHLFVQDPQTCKCCKNTDSRCKA RQLELNERTCRCDKPRRS

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<b>Endotoxin</b>	<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein="" determined="" by="" the="" lal="">
<b>Purity</b>	>95% judged by SDS-PAGE under reducing condition.
<b>Storage</b>	The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.
<b>Conjugation</b>	Biotin

## 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>MIM</b>	

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<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-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem;
<b>Function</b>	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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