

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

Cat. No. VEGFA-713H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human VEGF with His tag is a non-glycosylated, monomeric polypeptide chain containing a fragment of 165 amino acids (aa 5-169) and an N-terminal Histag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Protein Length</b>	5-169 a.a.
<b>Description</b>	VEGFA circulates more freely than other VEGF forms, which bind more tightly with vascular heparin sulfates. A vascular endothelial growth factor (VEGF) mRNA species containing exons 1–6 and 8 of the VEGF gene was found to be expressed as a major VEGF mRNA form in several cell lines derived from carcinomas of the female reproductive system.
<b>Form</b>	Sterile filtered liquid in 20 mM Tris HCl, pH 8.0 + 50% glycerol + 0.05 mM DTT
<b>Molecule weight</b>	23.6 kDa
<b>Concentration</b>	0.053 mg/ml
<b>Purity</b>	> 95.0% as determined by RP-HPLC and SDS-PAGE analyses

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<b>Endotoxin Level</b>	< 0.1 ng/g of VEGF
<b>Storage</b>	Stable for 4 weeks at 2-4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	VEGFA
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	VEGFA vascular endothelial growth factor A [ Homo sapiens ]
<b>Synonyms</b>	VEGFA; vascular endothelial growth factor A; VPF; VEGF; MVCD1; OTTHUMP00000016487; OTTHUMP00000016488; OTTHUMP000000165985; OTTHUMP000000165986; OTTHUMP000000165987; OTTHUMP000000224107; OTTHUMP000000224108; OTTHUMP000000224109; OTTHUMP000000224153; OTTHUMP000000224154; OTTHUMP000000224423; OTTHUMP000000224424; OTTHUMP000000224425; OTTHUMP000000224426; OTTHUMP000000224427; OTTHUMP000000224428; OTTHUMP000000224429; OTTHUMP000000224430; vascular permeability factor
<b>Gene ID</b>	7422
<b>mRNA Refseq</b>	NM_003376
<b>Protein Refseq</b>	NP_003367
<b>MIM</b>	192240
<b>UniProt ID</b>	P15692
<b>Chromosome</b>	6p12

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**Location****Pathway**

Bladder cancer; Cytokine-cytokine receptor interaction; Endochondral Ossification; Focal adhesion; Glypican 1 network; HIF-1-alpha transcription factor network; Id Signaling Pathway; Neurophilin interactions with VEGF and VEGFR; Pancreatic cancer; Renal cell carcinoma; Signal Transduction; Signaling events mediated by VEGFR1 and VEGFR2; VEGF ligand-receptor interactions; VEGFR1 specific signals; mTOR signaling pathway

**Function**

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

**PDB rendering based on 1bj1.**

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