

Recombinant Human Vascular Endothelial Growth Factor A, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
Protein Length	5-169 a.a.
Description	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.
Form	Sterile filtered liquid in 20 mM Tris HCl, pH 8.0 + 50% glycerol + 0.05 mM DTT
Molecule weight	23.6 kDa
Concentration	0.053 mg/ml
Purity	> 95.0% as determined by RP-HPLC and SDS-PAGE analyses

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Endotoxin Level	< 0.1 ng/g of VEGF
Storage	Stable for 4 weeks at 2-4°C. For long term storage, aliquot and store at -20°C. Avoid repeated freeze-thaw cycles.
Official Symbol	VEGFA
GENE INFORMATION	
Gene Name	VEGFA vascular endothelial growth factor A [Homo sapiens]
Synonyms	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
Gene ID	7422
mRNA Refseq	NM_003376
Protein Refseq	NP_003367
MIM	192240
UniProt ID	P15692
Chromosome	6p12

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Location	
Pathway	Bladder cancer;Cytokine-cytokine receptor interaction; Endochondral Ossification; Focaladhesion; Glypican 1 network; HIF-1-alpha transcription factor network; IdSignaling Pathway; Neutrophil interactions with VEGF and VEGFR; Pancreaticcancer; Renal cell carcinoma; Signal Transduction; Signaling events mediatedby VEGFR1 and VEGFR2; VEGF ligand-receptor interactions; VEGFR1 specific signals; mTOR signaling pathway
Function	cell surfacebinding; chemoattractant activity; cytokine activity; extracellular matrixbinding; fibronectin binding; growth factor activity; heparin binding;platelet-derived growth factor receptor binding; protein binding; proteinheterodimerization activity; vascular endothelial growth factor receptor 1binding; vascular endothelial growth factor receptor 2 binding; vascularendothelial growth factor receptor binding
PDB rendering basedon 1bj1.	

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