

Recombinant Human Vascular Endothelial Growth Factor A

Cat. No. VEGFA-5532H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VEGF189, a 21 kDa protein consisting of 189 amino acid residues, is produced as a homodimer.
Species	Human
Source	E.coli
Description	This gene is a member of the platelet-derived growth factor (PDGF)/vascular endothelial growth factor (VEGF) family and encodes a protein that is often found as a disulfide linked homodimer. This protein is a glycosylated mitogen that specifically acts on endothelial cells and has various effects.
Form	Lyophilized
Purity	> 98% as determined by SDS-PAGE analysis and visualised by silver stain.
Molecular Mass	42 kDa
Endotoxin Level	< 0.1 ng/μg of VEGF189
Biological Activity	Determined by the stimulation of 3H-thymidine incorporation and cell proliferation by human umbilical vein endothelial cells for VEGF189. The ED50 is in the range of 1-2 ng/ml.
Reconstitution	Centrifuge vial prior to opening. First add sterile distilled water to the vial to

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	fullysolubilize the protein to a concentration not less than 0.1-1.0 mg/ml. Aftercomplete solubilization of the protein, it can be further diluted to otheraqueous solutions.
Storage	Store lyophilizedprotein at -20°C to -80°C and reconstituted protein in working aliquots at-20°C. Avoid repeated freeze-thaw cycles.
OfficialSymbol	VEGFA
Pathways	Bladder cancer;Cytokine-cytokine receptor interaction; Endochondral Ossification; Focaladhesion; Glypican 1 network; HIF-1-alpha transcription factor network;HIF-2-alpha transcription factor network; Heart Development; Hemostasis;Hypertrophy Model; Id Signaling Pathway; Integrins in angiogenesis;Neurophilin interactions with VEGF and VEGFR; Pancreatic cancer; Pathways incancer
GENE INFORMATION	
Gene Name	VEGFA vascular endothelialgrowth factor A [Homo sapiens]
Synonyms	VEGFA;vascular endothelial growth factor A; VPF; VEGF; MVCD1; vascularendothelial growth factor A; OTTHUMP00000016487; OTTHUMP00000016488;OTTHUMP00000165985; OTTHUMP00000165986; OTTHUMP00000165987;OTTHUMP00000224107; OTTHUMP00000224108; OTTHUMP00000224109; OTTHUMP00000224153;OTTHUMP00000224154; OTTHUMP00000224423; OTTHUMP00000224424;OTTHUMP00000224425; OTTHUMP00000224426; OTTHUMP00000224427;OTTHUMP00000224428; OTTHUMP00000224429; OTTHUMP00000224430; vascularpermeability factor; Vascular endothelial growth factor A; Vascular permeability factor
Gene ID	7422

mRNA Refseq	NM_001025366
Protein Refseq	NP_001020537
MIM	192240
UniProt ID	P15692
Chromosome Location	6p12
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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