

Recombinant Human Vascular Endothelial Growth Factor A

Cat. No. VEGFA-5531H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VEGF165 is expressed in human 293 cells as a homodimeric glycoprotein with an apparent molecular mass of 45 kDa.
Species	Human
Source	HEK293
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.
Purity	>95% The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.
Molecular Mass	45 kDa, homodimer, glycosylated
Endotoxin Level	Endotoxin Free <1 EU/μg
Biological Activity	2 to 10 ng/mL ED50
Specific Activity	The specific activity was determined by the dose-dependent stimulation of the proliferation of HUVEC cells (Human Umbilical Vein Endothelial Cells).
Official Symbol	VEGFA

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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; vascular permeability 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

6p12

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Location**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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