

# Recombinant Human Vascular Endothelial Growth Factor A

Cat. No. VEGFA-5529H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human VEGF145 induced the proliferation of vascular endothelial cells and promoted angiogenesis in vivo.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	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.
<b>Form</b>	Lyophilized
<b>Purity</b>	Purified by affinity chromatography using Heparin-Sepharose as matrix. 95%, by SDS-PAGE and visualized by silver staining.
<b>Molecular Mass</b>	41 kDa
<b>Endotoxin Level</b>	< 0.1 ng per µg of VEGF
<b>Biological Activity</b>	The ED <sub>50</sub> for stimulation of 3H-thymidine incorporation and cell proliferation by human umbilical vein endothelial cells for VEGF145 has been determined to be in the range of 10 ng/ml.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Specific Activity</b>	2.5 x 10 <sup>5</sup> units/mg
<b>Notes</b>	Units per vial: 0.5x 10 <sup>3</sup> ; Range: 5-40 ng/ml; Coomassiestain 95%, by SDS-PAGE and visualized by silver stain.
<b>OfficialSymbol</b>	VEGFA
<b>Pathways</b>	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
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">VEGFA vascular endothelialgrowth factor A [ Homo sapiens ]</a>
<b>Synonyms</b>	VEGFA;vascular endothelial growth factor A; VPF; VEGF; MVCD1; vascularendothelial growth factor A; OTTHUMP00000016487; OTTHUMP00000016488;OTTHUMP000000165985; OTTHUMP000000165986; OTTHUMP000000165987; OTTHUMP000000224107;OTTHUMP000000224108; OTTHUMP000000224109; OTTHUMP000000224153;OTTHUMP000000224154; OTTHUMP000000224423; OTTHUMP000000224424;OTTHUMP000000224425; OTTHUMP000000224426; OTTHUMP000000224427;OTTHUMP000000224428; OTTHUMP000000224429; OTTHUMP000000224430; vascularpermeability factor; Vascular endothelial growth factor A; Vascular permeability factor
<b>Gene ID</b>	<a href="#">7422</a>
<b>mRNA Refseq</b>	<a href="#">NM_001025366</a>

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<b>Protein Refseq</b>	NP_001020537
<b>MIM</b>	192240
<b>UniProt ID</b>	P15692
<b>Chromosome Location</b>	6p12
<b>Function</b>	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
<b>PDB rendering basedon 1bj1.</b>	

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