

Recombinant Human Vascular Endothelial Growth Factor A

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

SPECIFICATION

Product Overview	Recombinant human VEGF145 induced the proliferation of vascular endothelial cells and promoted angiogenesis in vivo.
Species	Human
Source	Sf9 Cells
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	Purified by affinity chromatography using Heparin-Sepharose as matrix. 95%, by SDS-PAGE and visualized by silver staining.
Molecular Mass	41 kDa
Endotoxin Level	< 0.1 ng per µg of VEGF
Biological Activity	The ED ₅₀ 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  Fax: 1-631-938-8127

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

Specific Activity	2.5 x 10 ⁵ units/mg
Notes	Units per vial: 0.5x 10 ³ ; Range: 5-40 ng/ml; Coomassiestain 95%, by SDS-PAGE and visualized by silver stain.
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

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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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