

Recombinant Human Vascular Endothelial Growth Factor A

Cat. No. VEGFA-715H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human Vascular Endothelial Growth Factor 165, a 23 kDa protein consisting of 165 amino acid residues, is produced as a homodimer.
Species	Human
Source	Insect 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 without additives.
Purity	> 90% as determined by SDS-PAGE and visualized by silver stain.
Molecular Mass	45 kDa
Endotoxin Level	< 0.1 ng/μg of VEGF165.
Biological Activity	Determined by the stimulation of 3H-thymidine incorporation and cell proliferation by human umbilical vein endothelial cells. The ED50 range is 1-2ng/ml.
Reconstitution	Centrifuge vial prior to opening. Add PBS or medium containing at least 0.1% HSA or BSA to the vial to fully solubilize the protein to a concentration of 50 μg/ml. Please note

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that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.

Storage

Lyophilized protein is stable for 6 months at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

Official Symbol

VEGFA

Pathways

Bladder cancer; Cytokine-cytokine receptor interaction; Endochondral Ossification; Focal adhesion; 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 in cancer

GENE INFORMATION

Gene Name

VEGFA vascular endothelial growth factor A [Homo sapiens]

Synonyms

VEGFA; vascular endothelial growth factor A; VPF; VEGF; MVCD1; vascular endothelial growth factor A; OTTHUMP00000016487; OTTHUMP00000016488; OTTHUMP000000165985; OTTHUMP000000165986; OTTHUMP000000165987; OTTHUMP000000224107; OTTHUMP000000224108; OTTHUMP000000224109; OTTHUMP000000224153; OTTHUMP000000224154; OTTHUMP000000224423; OTTHUMP000000224424; OTTHUMP000000224425; OTTHUMP000000224426; OTTHUMP000000224427; OTTHUMP000000224428; OTTHUMP000000224429; OTTHUMP000000224430; vascular permeability factor; Vascular endothelial growth factor A; Vascular permeability factor

Gene ID

7422

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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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