

Recombinant Human VEGFA, His-tagged

Cat. No. VEGFA-31706TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 5-169 of Human VEGF (VEGF165 isoform), with a N-terminal hexahistidine tag.
Species	Human
Source	E.coli
ProteinLength	5-169 a.a.
Description	This gene is a member of the PDGF/VEGF growth factor 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, including mediating increased vascular permeability, inducing angiogenesis, vasculogenesis and endothelial cell growth, promoting cell migration, and inhibiting apoptosis. Elevated levels of this protein is linked to POEMS syndrome, also known as Crow-Fukase syndrome. Mutations in this gene have been associated with proliferative and nonproliferative diabetic retinopathy. Alternatively spliced transcript variants, encoding either freely secreted or cell-associated isoforms, have been characterized. There is also evidence for the use of non-AUG (CUG) translation initiation sites upstream of, and in-frame with the first AUG, leading to additional isoforms.
Conjugation	HIS
Tissue specificity	Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed.

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Isoform VEGF206 and isoform VEGF145 are not widely expressed.

Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50% Glycerol, 20mM Tris, pH 8
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the PDGF/VEGF growth factor family.
Full Length	Full L.

GENE INFORMATION

Gene Name	VEGFA vascular endothelial growth factor A [Homo sapiens]
Official Symbol	VEGFA
Synonyms	VEGFA; vascular endothelial growth factor A; vascular endothelial growth factor , VEGF; VEGF A; VPF;
Gene ID	7422
mRNA Refseq	NM_001025366
Protein Refseq	NP_001020537
Uniprot ID	P15692

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Chromosome Location	6p12
Pathway	Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem;
Function	cell surface binding; chemoattractant activity; cytokine activity; cytokine activity; extracellular matrix binding;

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