

Recombinant Human VEGFA

Cat. No. VEGFA-31562TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mature full length protein, corresponding to amino acids 27/232 of precursor Human VEGF protein
Species	Human
Source	E.coli
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.
Tissue specificity	Isoform VEGF189, isoform VEGF165 and isoform VEGF121 are widely expressed. Isoform VEGF206 and isoform VEGF145 are not widely expressed.
Form	Lyophilised:Reconstitute to 1mg/ml in distilled water

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Purity	>95% by SDS-PAGE
Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.
Sequences of amino acids	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQQQH IGEMSFLQHN KCECRPKKDR ARQENCDKPR R
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
Chromosome	6p12

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Location	
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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