Active Recombinant Human VEGFA, His-tagged

Cat. No. VEGFA-101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human VEGFA (165 a.a.) full-length recombinant protein with His tag expressed in Barley grain (Hordeum vulgare).
Species	Human
Source	Barley Grain
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.
Form	Lyophilized
Bio-activity	The ED50 is determined by Cell Proliferation Assay for the dose-dependent effects of serial dilutions of recombinant human VEGFA on HUVEC cells. The ED50 value was

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	determined to be 0.58 ng/mL.
Molecular Mass	30 kDa
Endotoxin	Endotoxin level is less than 0.005ng per ug protein (0.05EU/ug) as measured by turbidimetric kinetic assay
Purity	>95% by SDS-PAGE
Applications	Western Blot (Recombinant protein); Functional Study; SDS-PAGE
Storage	After reconstitution with sterile water to a concentration of no less than 100 ug/mL, store at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Aliquot to avoid repeated freezing and thawing.
Concentration	100 ug/mL
Storage Buffer	Lyophilized from PBS, pH 7.2

GENE INFORMATION

Gene Name	VEGFA vascular endothelial growth factor A [Homo sapiens(human)]
Official Symbol	VEGFA
Synonyms	VEGFA; VPF; VEGF; MVCD1; vascular endothelial growth factor A; vascular permeability factor
Gene ID	7422
mRNA Refseq	NM_001171626

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Protein Refseq	NP_001165097
MIM	192240
UniProt ID	P15692
Chromosome Location	6p12
Pathway	Angiogenesis; Bladder cancer; Cellular response to hypoxia
Function	chemoattractant activity; cytokine activity; extracellular matrix binding

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