

Recombinant Human VEGFA

Cat. No. VEGFA-P1003H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VEGFA fused with 6His was produced in CHO cells.
Species	Human
Source	CHO
Description	Vascular endothelial growth factor (VEGFA) is a mitogen that specifically acts on endothelial cells and has various effects, including mediating increased vascular permeability and inducing angiogenesis, cell growth, migration, and inhibition of apoptosis. It is a pivotal stimulator of angiogenesis because its binding to VEGF receptors has been shown to promote endothelial cell migration and proliferation, two key features required for the development of new blood vessels. In addition, VEGF-A increases vascular permeability, which may also contribute to angiogenesis and tumor growth. Recognition of the central role of VEGF-A in angiogenesis has led to the hypothesis that its inhibition may represent a novel and effective approach to the treatment of cancer and other conditions characterized by pathologic angiogenesis.
Protein Construction	Recombinant human VEGFA is combined the Sequence of VEGFA with 6His.
Purity	>95% as determined by SDS-PAGE and HPLC
Endotoxin	<1.0 EU per 10 mg protein as determined by the LAL method
Stability	Samples are stable for up to six months from date of receipt at -20°C and are stable for two months at 4°C.

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Molecular Mass	Recombinanthuman VEGFA comprises 342 amino acid residues, combining 6His, The MW is25kDa under reducing conditions.
Predicted N terminal	APMAEGGGQN
Formulation	Normally20-50mM NaAC-HAC and 100-150 mM NaCl are added, pH 5.0-6.0.
Storage	Store itunder sterile conditions at -70°Cupon receiving. Recommend to pack the protein intosmaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	VEGFA vascular endothelial growth factor A [Homo sapiens]
Official Symbol	VEGFA
Synonyms	VEGFA; vascular endothelial growth factor A; VPF; VEGF; MVCD1;VEGF-A; MGC70609; vascular permeability factor; vascular endothelial growthfactor isoform VEGF165; vascular endothelial growth factor
Gene ID	7422
mRNA Refseq	NM_001025366
Protein Refseq	NP_001020537
MIM	192240
UniProt ID	P15692

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Chromosome Location	6p12
Pathway	Cytokine-cytokinereceptor interaction; Focal adhesion; Pancreatic cancer; Renal cellcarcinoma; VEGF signaling pathway; mTOR signaling pathway; Hemostasis;Signaling by VEGF
Function	cellsurface binding; chemoattractant activity; cytokine activity
Crystal structure ofVamminaVEGF-Ffrom a snake venom	

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