

Recombinant Human Vascular Endothelial Growth Factor A 109

Cat. No. VEGFA-389H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Humanvascular endothelial growth factor109 was expressed in <i>E.coli</i> .
Species	Human
Source	E.coli
Description	Vascular endothelial growth factor (VEGF) is a member of the cysteine-knot growth factor superfamily. Five VEGF splice variants exist including VEGF-121, VEGF-145, VEGF-165, VEGF-189; and VEGF-206. VEGF-165 is the most abundant and active isoform. VEGF-165 functions as a growth factor in angiogenesis, vasculogenesis and endothelial cell growth. VEGF-165 acts as a specific mitogen and survival factor for vascular endothelial cells, inducing microvascular permeability, cell migration and regulates the differentiation and survival of hematopoietic progenitor cells to affect hematopoiesis, immune function and tumour progression. VEGF-165 also plays roles in neurogenesis and blood brain barrier function.
Amino Acid Sequence	GQNHHEVVK F MDVYQRS YCH PIETLV DIFQ EYPD EIEYIF KPSCVPL MRC GGC C NDEGLE CVPTEESNIT MQIMRIKPHQ GQHIGEMSFL QHNKCECRPKKDHFFF.
Molecular Mass	VEGF-109 migrates as a 14 kDa in SDS-PAGE.
PI	human VEGF-109 has a predicted pI of 5.3-6.0.
Purification	97%, as determined by SDS-PAGE and visualized by silver stain.

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Appearance	Transparent liquid.
Formulation	rh-VEGF109, 10 mM NaAc, pH 5.5, 4% Manitol.
Storage	At 4°C for 12 months.
GENE INFORMATION	
Gene Name	VEGFA vascular endothelial growth factor A [Homo sapiens]
Synonyms	vascular endothelial growth factor A; VPF; VEGF; MVCD1; VEGF-A; MGC70609; VEGFA; vascular permeability factor; vascular endothelial growth factor isoform VEGF165; Vascular permeability factor
Gene ID	7422
mRNA Refseq	NM_001025366
Protein Refseq	NP_001020537
MIM	192240
UniProt ID	P15692
Chromosome Location	6p12
Pathway	Bladder cancer; Cytokine-cytokine receptor interaction; Focal adhesion; Pancreatic cancer; Pathways in cancer; Renal cell carcinoma; VEGF signaling pathway; mTOR signaling pathway; Hemostasis; Signaling by VEGF

Function

cell surface binding; cytokine activity; extracellular matrix binding; fibronectin binding; growth factor activity; heparin binding; platelet-derived growth factor receptor binding; protein homodimerization activity; vascular endothelial growth factor receptor 1 binding; vascular endothelial growth factor receptor 2 binding

PDB rendering based on 1bj1.

