

Active Recombinant Human VEGFA

Cat. No. VEGFA-543H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human VEGFA (NP_001020541, 207 a.a.-327 a.a.) partial recombinant protein with His tag expressed in Escherichia coli.
Species	Human
Source	Human
Description	Vascular endothelial growth factor A (VEGF-A) is a protein that in humans is encoded by the VEGFA gene.
Sequence	MGSSHHHHHH SSGLVPRGSH MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CCNDEGLECV PTEESNITMQ IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQEKCDKP RR
Theoretical MW (kDa)	16.3
Form	Liquid
Preparation Method	E. coli expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Activity	The ED50 for this effect is < 4.2 ng/mL. Measured in a cell proliferation assay using

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	NIH-3T3 cell.
Application	SDS-PAGE
Storage Buffer	In 20 mM Tris, pH 8.0
Storage	Store at 4°C for 1-2 weeks. For long term storage store at -20°C or -80°C.
Unitprot ID	P15692

GENE INFORMATION

Gene Name	VEGFA vascular endothelial growth factor A [Homo sapiens]
Official Symbol	VEGFA
Synonyms	VPF; VEGF; VEGFA_HUMAN; Vascular permeability factor; VEGF-A; VEGFA; MGC70609; Vegf120; Vegf164; Vegf188; vascular endothelial growth factor A; MGC70609; Vascular endothelial growth factor A precursor; Vascular permeability factor
Gene ID	7422
mRNA Refseq	NM_001025366
Protein Refseq	NP_001020537
MIM	192240
Chromosome Location	6p12

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Pathway

Cytokine-cytokine receptor interaction; Focal adhesion; Pancreatic cancer; Renal cell carcinoma; VEGF signaling pathway; mTOR signaling pathway; Hemostasis; Signaling by VEGF.

Function

cell surface binding ;extracellular matrix binding; growth factor activity; growth factor activity; heparin binding; platelet-derived growth factor receptor binding; protein binding; protein homodimerization activity; vascular endothelial growth factor receptor binding.

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