

Recombinant Human VEGFA, GST-tagged

Cat. No. VEGFA-102H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human VEGFA full-length ORF (ENSP00000361134, 1 a.a. - 147 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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.
Molecular Mass	43.6 kDa
AA Sequence	MNFLLSWVHWSLALLLYLHHAKWSQAAPMAEGGGQNHHEVVKFMDVYQRSYCHPI ETLVDIFQEYPDEIEYIFKP SCVPLMRCGGCCNDEGLECVPTESNITMQIMRIKPHQ

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	GQHIGEMSFLQHNKCECRPKKDRARQEKC DKPRR
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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
Protein Refseq	NP_001165097
MIM	192240
UniProt ID	P15692
Chromosome Location	6p12
Pathway	Angiogenesis; Bladder cancer; Cellular response to hypoxia

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Function

chemoattractant activity; cytokine activity; extracellular matrix binding

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