

VEGF121 active protein

VEGF121, 207-327aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48513	HOST E Coli	APPLICATIONS SDS-Page
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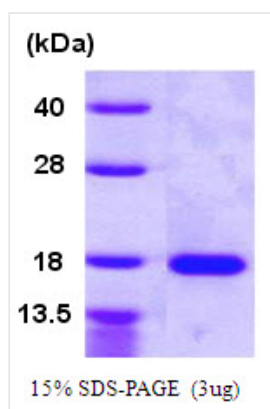
PRODUCT SYNONYMS

VEGF121; 207-327aa; Human; His tag; E Coli (Bioactivity Validated); Vascular endothelial growth factor A isoform f; VPF; VEGF; VEGF-A; MGC70609; Vascular endothelial growth factor A isoform f MVCD1; Vascular endothelial growth factor A; Vascular permeability factor; VEGF A.; VEGF121 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS PAGE
Form/Format	Liquid in 20mM Tris pH 8.0 containing 10% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSGLVPRGSH MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CCNDEGLECV PTEESNITMQ IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQEKCDKP RR
Sequence Length	327
Applicable Applications for VEGF121 active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	The ED50 for this effect is < 4.2 ng/ml. Measured in a cell proliferation assay using NIH-3T3 cell.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for VEGF121 active protein	Vascular endothelial growth factor (VEGF) is homodimeric, heparin-binding glycoprotein involved in both angiogenesis and vasculogenesis. VEGF is expressed as multiple alternately spliced isoforms of VEGF121, 165, 189 and 206. VEGF binds to the receptor tyrosine kinases VEGF R1 (Flt-1) and VEGF R2 (KDR/Flk-1) to activate signal transduction and regulate both physiological and pathological angiogenesis. Recombinant VEGF121 protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for VEGF121 active protein	Cancer
References	Yasuji ueda., et al (2004) Cancer Chemother Pharmacol. 54 (1):16-24; Neufeld G., et all (1999) FASEB J. 13 (1):9-22;

NCBI AND UNIPROT INFORMATION

NCBI GI #	76781485
NCBI GeneID	7422
NCBI Accession #	NP_001020541
NCBI GenBank Nucleotide #	NM_001025370.2
UniProt Accession #	P15692; O60720; O75875; Q074Z4; Q16889; B5BU86; H0Y2S8; H0Y407; H0Y414; H0Y462; H0Y8N2; H3BLW7
Molecular Weight	16.3 kDa (142aa), confirmed by MALDI-TOF.
NCBI Official Full Name	vascular endothelial growth factor A isoform f
NCBI Official Synonym Full Names	vascular endothelial growth factor A
NCBI Official Symbol	VEGFA
NCBI Official Synonym Symbols	VPF; VEGF; MVCD1
NCBI Protein Information	vascular endothelial growth factor A
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	VEGFA
UniProt Synonym Gene Names	VEGF; VEGF-A; VPF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.