

VEGF206 active protein

Human VEGF206

CATALOG # AAA14948	HOST E Coli	REACTIVITY Human
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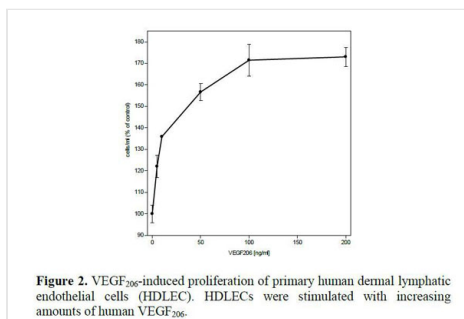
PRODUCT SYNONYMS

VEGF206; Human VEGF206; VEGF-A; VPF; VEGF206 active protein

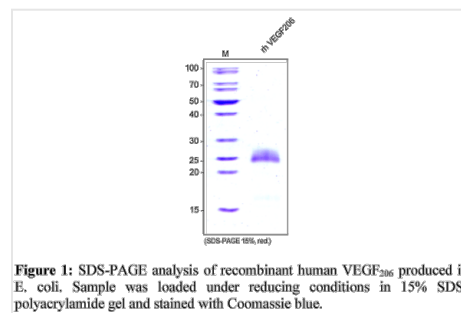
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	>=75% by SDS-PAGE & Coomassie stain
Form/Format	Lyophilized
Sequence	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGGH IGEMSFLQHN KCECRPKKDR ARQEKKSVRG KGKGQKRRKK SRYKSWSVYV GARCCCLMPWS LGGPHPCGPC SERRKHLFVQ DPQTCCKSCK NTDSRCKARQ LELNERTCRC DKPRR
Sequence Length	206
Gene	vegf
Reconstitution	Centrifuge vial prior to opening. The lyophilized VEGF ₂₀₆ should be reconstituted in 50mM acetic acid to a concentration not lower than 50 ug/ml. For long term storage we recommend to add at least 0.1% human or bovine serum albumin.
Biological Activity	The ED ₅₀ for stimulation of cell proliferation in human dermal lymphatic endothelial cells (HDLEC) by VEGF ₂₀₆ has been determined to be in the range of 5-15 ng/ml.
Stabilizer	None
Result by N-terminal sequencing	APMAEGG
Buffer	50 mM acetic acid
Length (aa)	206
Preparation and Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted VEGF206 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for VEGF206 active protein	Vascular endothelial growth factor-A (VEGF-A) mRNA undergoes alternative splicing events that generate several different homodimeric isoforms, e.g. VEGF121, VEGF145, VEGF165, VEGF189, and VEGF206. VEGF121 is a non-heparin-binding acidic protein, which is freely diffusible. The longer forms, VEGF189 or VEGF206, are highly basic proteins tightly bound to extracellular heparin-containing proteoglycans. VEGF165 has intermediate properties. VEGF165 was observed largely in Golgi apparatus-like structures. Immunogold labeling of cells expressing VEGF189 or VEGF206 revealed that the staining was localized to the subepithelial ECM. VEGF associated with the ECM was bioactive, because endothelial cells cultured on ECM derived from cells expressing VEGF189 or VEGF206 were markedly stimulated to proliferate. In addition, ECM-bound VEGF can be released into a soluble and bioactive form by heparin or plasmin. ECM-bound VEGF189 and VEGF206 have molecular masses consistent with the intact polypeptides. The ECM may represent an important source of VEGF and angiogenic potential. The isoforms VEGF145, VEGF165 and VEGF189 bind to heparin with high affinity, the affinity of VEGF206 is much weaker. All dimeric forms have similar biological activities but their bioavailability is very different. However so far there are only a few data about the biological activities of VEGF206.
Product Categories/Family for VEGF206 active protein	Cytokines & Growth Factors
References	1. Park JE et al, Mol Biol Cell 4:1317, 1993 2. Grützkau A et al, Mol Biol Cell 9:875, 1998 3. Breier et al., Dev 114:521, 1992 4. Fiebig et al., Eur J Biochem 211:19, 1993 5. Flamme et al., Dev Biol 162:699, 1995 6. Kremer at al., Cancer Res 57:3852, 1997

NCBI AND UNIPROT INFORMATION

NCBI GI #	76781480
NCBI GeneID	7422
NCBI Accession #	NP_001165095
NCBI GenBank Nucleotide #	NM_001171624
UniProt Accession #	P15692-1; O60720; O75875; Q074Z4; Q16889; Q5UB46; Q6P0P5; Q96KJ0; Q96L82; Q96NW5; Q9H1W8; B5BU86; P15692
Molecular Weight	~47 kDa (Dimer)
NCBI Official Full Name	vascular endothelial growth factor A isoform a
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; vascular permeability factor
UniProt Protein Name	Vascular endothelial growth factor A
UniProt Gene Name	VEGFA
UniProt Synonym Gene Names	VEGF; VEGF-A; VPF
UniProt Entry Name	VEGFA_HUMAN

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.