

VEGF206 active protein

Recombinant Human Vascular Endothelial Growth Factor₂₀₆

CATALOG # AAA14955	HOST E.coli
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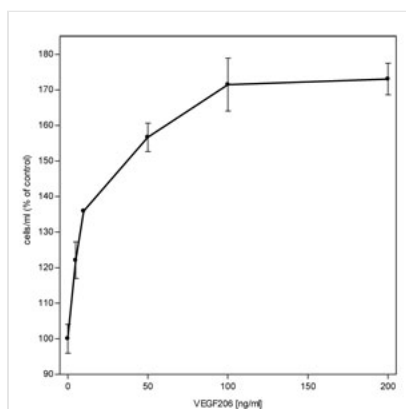
PRODUCT SYNONYMS

VEGF206; Recombinant Human Vascular Endothelial Growth Factor₂₀₆; VEGF-A; VPF; VEGF206 active protein

PRODUCT SPECIFICATIONS

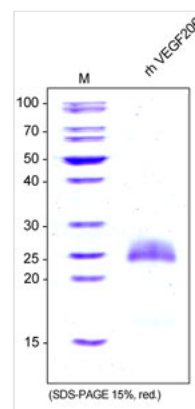
Host	E.coli
Purity/Purification	≥ 75% by SDS-PAGE & Coomassie stain
Form/Format	Lyophilized; 50 mM acetic acid
Sequence	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVPT TEESNITMQI MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQEKKSVRG KGKGQKRRKK SRYKSWSVYV GARCCMLPWS LPGPHPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR
Gene	vegf
Length (aa)	206
Result by N-terminal sequencing	APMAEGG
Reconstitution	Centrifuge the 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.
Preparation and Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted VEGF ₂₀₆ should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data

VEGF206-induced proliferation of primary human dermal lymphatic endothelial cells (HDLEC). HDLECs were stimulated with increasing amounts of human VEGF206.



SDS-PAGE

SDS-PAGE analysis of recombinant human VEGF206 produced in E. coli. Sample was loaded under reducing conditions in 15% SDS polyacrylamide gel and stained with Coomassie blue.

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. VEGF ₁₂₁ , VEGF ₁₄₅ , VEGF ₁₆₅ , VEGF ₁₈₉ , and VEGF ₂₀₆ . VEGF ₁₂₁ is a non-heparin-binding acidic protein, which is freely diffusible. The longer forms, VEGF ₁₈₉ or VEGF ₂₀₆ , are highly basic proteins tightly bound to extracellular heparin-containing proteoglycans. VEGF ₁₆₅ has intermediate properties. VEGF ₁₆₅ was observed largely in Golgi apparatus-like structures. Immunogold labeling of cells expressing VEGF ₁₈₉ or VEGF ₂₀₆ 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 VEGF ₁₈₉ or VEGF ₂₀₆ 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 VEGF ₁₈₉ and VEGF ₂₀₆ have molecular masses consistent with the intact polypeptides. The ECM may represent an important source of VEGF and angiogenic potential. The isoforms VEGF ₁₄₅ , VEGF ₁₆₅ and VEGF ₁₈₉ bind to heparin with high affinity, the affinity of VEGF ₂₀₆ is much weaker. All dimeric forms have similar biological activities but their bio-availability is very different. However so far there are only a few data about the biological activities of VEGF ₂₀₆ .
Product Categories/Family for VEGF206 active protein	Recombinant protein; Cytokines & Growth Factors; VEGF206

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; B5BU86; H0Y2S8; H0Y407; H0Y414; H0Y462; H0Y8N2; H3BLW7; 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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/vegf206/14955>