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Datasheet for ABIN1589790 VEGF206 Protein (Homodimer)

Overview

Quantity:	2 µg
Target:	VEGF206
Protein Characteristics:	Homodimer
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Sequence:	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQEKKSVRG KGKGQKRKRK KSRYSWSVY VGARCCLMPW SLPGPHPCGP CSERRKHLFV QDPQTCKCSC KNTDSRCKAR QLELNERTCR CDKPRR
Characteristics:	Length (AA): 206 Chromosomal location: 6p12
Purity:	> 98 % by SDS-PAGE. Visualized by silver stain

Target Details

Target:	VEGF206
Abstract:	VEGF206 Products
Background:	Vascular endothelial growth factor-A (VEGF-A) mRNA undergoes alternative splicing events that generate several different homodimeric isoforms, e.g. VEGF121, VEGF145, VEGF165, VEGF189,

Target Details

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 bio-availability is very different. However so far there are only a few data about the biological activities of VEGF206.

Synonyms: Vascular endothelial growth factor A, VEGFA, VPF, VEGF, MVCD2

Molecular Weight:	approx. 47 kDa
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NCBI Accession:	NM_001171626 , NP_001165097
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UniProt:	P15692
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Application Details

Application Notes:	Testing under progress!
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Comment:	Cytokines & Growth Factors
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Reconstitution:	The lyophilized VEGF206 should be reconstituted in 50 mM acetic acid to a concentration not lower than 50 µg/mL. For long term storage we recommend to add at least 0.1% human or bovine serum albumin.
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Buffer:	50 mM acetic acid
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-20 °C
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Handling

Storage Comment: 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.