

Datasheet for ABIN1589577 VEGF189 Protein (Homodimer)



Overview

Overview	
Quantity:	2 µg
Target:	VEGF189
Protein Characteristics:	Homodimer
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Purpose:	VEGF189
Sequence:	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQEKKSVRG KGKGQKRKRK KSRYKSWSVP CGPCSERRKH LFVQDPQTCK CSCKNTDSRC KARQLELNER TCRCDKPRR
Specificity:	Chromosomal location:6p12
Characteristics:	Length (aa):189
Purity:	> 98 % by SDS-PAGE
Endotoxin Level:	< 0.1 ng per µg of human VEGF189
Target Details	
Target:	VEGF189

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Target Details	
Abstract:	VEGF189 Products
Background:	Human Vascular Endothelial Growth Factor VEGF189, a 21 kDa protein consisting of 189 amino
	acid residues, is produced as a homodimer. VEGF is a polypeptide growth factor and a member
	of the platelet-derived growth factor family. It is a specific mitogen for vascular endothelial cells
	and a strong angiogenic factor in vivo. Two high-affinity tyrosine kinase receptors for VEGF165
	have been identified, VEGFR-1 (FLT-1), and VEGFR-2 (KDR). Consistent with the endothelial cell-
	specific action of VEGF165, expression of both receptor genes has been found predominantly
	but not exclusively on endothelial cells. Expression of VEGFR-1 was also found on human
	monocytes, neutrophils (PMNs), bovine brain pericytes and villous and extra villous trophoblast.
	In addition to its action as a mitogen it is a potent vasular permeability factor (VPF) in vivo.
	VEGF165 is also a chemo attractant molecule for monocytes and endothelial cells. 5 different
	proteins are generated by diffential splicing: VEGF121, VEGF145, VEGF165, VEGF189 and
	VEGF206. The most abundant form is VEGF165. Where¬as VEGF121 and VEGF165 are
	secreted proteins, VEGF145, VEGF189 and VEGF206 are strongly cell-associated. The isoforms
	VEGF145, VEGF165 and VEGF189 bind to heparin with high affinity. VEGF165 is appa¬rently a
	homo-dimer, but preparations of VEGF165 show some heterogeneity on SDS gels, depending
	on the secretion of different glycosylation patterns. All dimeric forms have similar biological
	activities but their bio-availability is very different. There is good evidence that heterodimeric
	molecules between the different isoforms also exists and that different cells and tissues
	express different VEGF isoforms. The other members of this in-creasing growth factor family
	are VEGF-B, -C, -D and -E. Another member is the Placenta growth factor PIGF.
	Synonyms: vascular endothelial growth factor A, VEGFA,VPF, VEGF, MVCD1
Molecular Weight:	~ 42.0 kDa
Gene ID:	7422
NCBI Accession:	NM_001025366, NP_001020537
UniProt:	P15692
Application Details	
Application Notes:	Measured by the stimulation of cell proliferation in human umbilical vein endothelial cells in the
	range of 2-20 ng/mL.

Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

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Handling

Format:	Lyophilized
Reconstitution:	The lyophilized VEGF189 is soluble in water and most aqueous buffers. The lyophilized VEGF189 should be reconstituted in PBS or medium containing at least 0.1 % human or bovine serum albumin to a concentration not lower than 50 µg/mL.
Buffer:	50 mM acetic acid
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	RT,-20 °C
Storage Comment:	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted VEGF189 should be stored in working aliquots at -20°C. Avoid repeated freeze- thaw cycles.