

Datasheet for ABIN1589785 **VEGFC Protein**



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Overview

Quantity:	20 µg
Target:	VEGFC
Origin:	Rat
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	VEGF-C
Sequence:	DTVKLAAAHY NTEILKSIDN EWRKTQCMR EVCIDVGKEF GAATNTFFKP PCVSVYRCGG CCNSEGLQCM NTSTGYLSKT LFEITVPLSQ GPKPVTISFA NHTSCRCMSK LDVYRQVHSI IHSHHHH
Specificity:	Chromosomal location:16p11
Characteristics:	Length (aa):127
Purity:	> 90 % by SDS-PAGE

Target Details

Target:	VEGFC
Alternative Name:	VEGF-C (VEGFC Products)
Background:	VEGF-C, also known as Vascular Endothelial Growth Factor Related Protein (VRP), is a recently discovered VEGF growth factor family member that is most closely related to VEGF-D. The rat

Target Details

VEGF C cDNA encodes a pre-pro-protein of 416 amino acids residues. It is almost identical to the mouse VEGF-C protein. Similar to VEGF-D, VEGF-C has a VEGF homology domain spanning the middle third of the precursor molecule and long N- and C-terminal extensions. In adults, VEGF-C is highly expressed in heart, placenta, ovary and small intestine. Recombinant rat VEGF-C, lacking the N- and C-terminal extensions and containing only the middle VEGF homology domain, forms primarily non-covalently linked dimers. This protein is a ligand for both VEGFR-2/KDR and VEGFR-3/FLT-4. Since VEGFR-3 is strongly expressed in lymphatic endothelial cells, it has been postulated that VEGF-C is involved in the regulation of the growth and/or differentiation of lymphatic endothelium. Although recombinant rat VEGF-C is also a mitogen for vascular endothelial cells, it is much less potent than VEGF-A. The recombinant rat VEGF-C contains 127 amino acids residues and was fused to a His-tag (6x His) at the C-terminal end. As a result of glycosylation VEGF-C migrates as an 15-20 kDa protein in SDS-PAGE under reducing conditions.

Synonyms: vascular endothelial growth factor C, Vegfc

Molecular Weight:	15.0 - 20.0 kDa
Gene ID:	114111
NCBI Accession:	NM_053653 , NP_446105
UniProt:	O35757
Pathways:	RTK Signaling , Signaling Events mediated by VEGFR1 and VEGFR2

Application Details

Application Notes:	The biological activity was determined (i) by the ability to induce VEGFR-3/FLT-4 receptor phosphorylation in PAEC/VEGFR-3 cells and (ii) the VEGF-C-induced proliferation of primary human dermal lymphatic endothelial cells (HDLEC).
Comment:	Cytokines & Growth Factors
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	The lyophilized VEGF-C is soluble in water and most aqueous buffers. The lyophilized VEGF-C should be reconstituted in PBS or medium to a concentration not lower than 50 µg/mL.
Buffer:	50 mM acetic acid

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C,-80 °C
Storage Comment:	Lyophilized samples are stable for greater than six months at -20°C to -70°C. Reconstituted VEGF-C should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles!
Expiry Date:	6 months