

Datasheet for ABIN1589788 **VEGFC Protein (His tag)**



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Overview

Quantity:	5 µg
Target:	VEGFC
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This VEGFC protein is labelled with His tag.

Product Details

Purpose:	VEGF-C
Sequence:	DPTEETIKFA AAHYNTEILK SIDNEWKTKQ CMPREVCIDV GKEFGVATNT FFKPPCVSVY RCGGCCNSEG LQCMNTSTSY LSKTLFEITV PLSQGPKPVT ISFANHTSCR CMSKLHHHHH H
Specificity:	Chromosomal location:11q13
Characteristics:	Length (aa):121
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

Target Details

discovered VEGF growth factor family member that is most closely related to VEGF-D. The human 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 human 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 human VEGF-C is also a mitogen for vascular endothelial cells, it is much less potent than VEGF-A. The recombinant human VEGF-C contains 121 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 18-24 kDa protein in SDS-PAGE under reducing conditions.

Synonyms: vascular endothelial growth factor C, VEGFC, VRP, Flt4-L

Molecular Weight: 18.0-24.0 kDa

Gene ID: 7424

NCBI Accession: [NM_005429](#), [NP_005420](#)

UniProt: [P49767](#)

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.

Handling

Buffer: Water

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C,-80 °C

Storage Comment: Lyophilized samples are stable for more 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