

## Datasheet for ABIN7318092 **VEGFC Protein (His tag)**



[Go to Product page](#)

### Overview

Quantity:	50 µg
Target:	VEGFC
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VEGFC protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human VEGF-C/VEGFC Protein (His Tag)
Sequence:	Phe32-Arg227
Characteristics:	Recombinant Human Vascular Endothelial Growth Factor C is produced by our Mammalian expression system and the target gene encoding Phe32-Arg227 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	VEGFC
Alternative Name:	VEGF-C/VEGFC ( <a href="#">VEGFC Products</a> )
Background:	Background: Vascular Endothelial Growth Factor (VEGF)-C is a member of the VEGF family, a group of polypeptide growth factors which play key roles in the physiology and pathology of

Target Details

many aspects of the cardiovascular system, including vasculogenesis, hematopoiesis, angiogenesis and vascular permeability. While VEGFC is homologous to other members of the VEGF/PDGF family, it contains the C-terminal propeptide which has an unusual structure with tandemly repeated cysteine-rich motifs. Upon biosynthesis, VEGFC is secreted as a non-covalent momodimer in an anti-parallel fashion. VEGF signalling in endothelial cells occurs through three tyrosine kinase receptors (VEGFRs) expressed by endothelial cells and hematopoietic precursors, and VEGF-C is a ligand for two receptors, VEGFR-3 (Flt4), and VEGFR-2. It is indicated that VEGFC undergoes a complex proteolytic maturation generating a variety of processed secreted forms with increased activity toward VEGFR-3, but only the fully processed form could activate VEGFR-2. VEGFC may function in angiogenesis of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Knockout of the VEGF-C gene is embryonic lethal late in development, and although cells differentiate into the lymphatic lineage, they fail to sprout and form lymphatic vessels. Inactivation of a single VEGF-C allele results in the development of cutaneous lymphatic hypoplasia and lymphedema.

Synonym: Vascular Endothelial Growth Factor C, VEGF-C, Flt4 Ligand, Flt4-L, Vascular Endothelial Growth Factor-Related Protein, VRP, VEGFC

Molecular Weight: 23.3 kDa

UniProt: [P49767](#)

Pathways: [RTK Signaling, Signaling Events mediated by VEGFR1 and VEGFR2](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.