

Datasheet for ABIN2181912

VEGFC Protein (AA 103-227) (His tag)**2** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	VEGFC
Protein Characteristics:	AA 103-227
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This VEGFC protein is labelled with His tag.

Product Details

Sequence:	AA 103-227
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 15 kDa. The protein migrates as 18-23 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	VEGFC
Alternative Name:	VEGF-C (VEGFC Products)
Background:	Vascular endothelial growth factor C is also known as VEGFC, Flt4-L and VRP, it contains the C-terminal propeptide which has an unusual structure with tandemly repeated cysteine-rich

Target Details

motifs. Upon biosynthesis, VEGFC is secreted as a non-covalent momodimer in an anti-parallel fashion. VEGFC is a member of the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family, is active in angiogenesis, lymphangiogenesis and endothelial cell growth and survival, and can also affect the permeability of blood vessels. This secreted protein undergoes a complex proteolytic maturation, generating multiple processed forms that bind and activate VEGFR-3 receptors. Only the fully processed form can bind and activate VEGFR-2 receptors. The structure and function of this protein is similar to those of vascular endothelial growth factor D (VEGF-D). 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. Overexpression of VEGF-C causes lymphatics to enlarge possibly facilitates metastasis.

Molecular Weight: 14.9 kDa

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

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

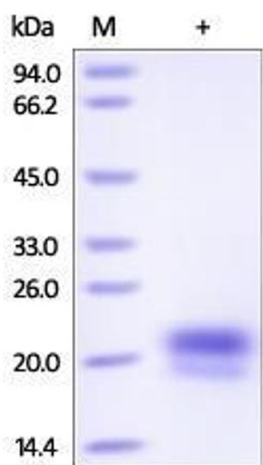
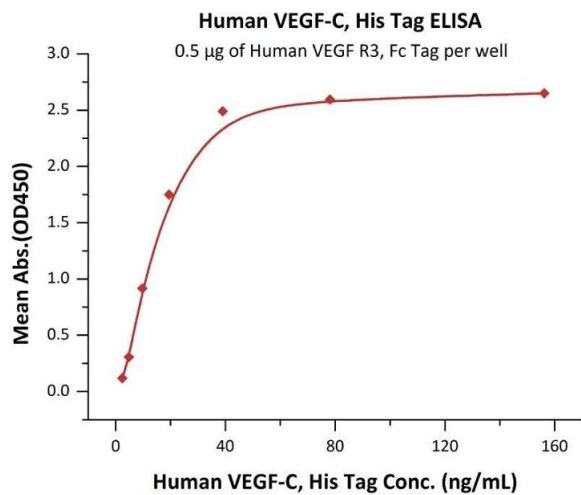
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: Lyophilized Protein should be stored at -20 °C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20 °C or -70 °C. Avoid repeated freeze-thaw cycles.

Publications

Product cited in: de Guzman, Rabbany: "PEG-Immobilized Keratin for Protein Drug Sequestration and pH-Mediated Delivery." in: **Journal of drug delivery**, Vol. 2016, pp. 7843951, (2016) ([PubMed](#)).



ELISA

Image 1. Immobilized Human VEGF R3, Fc Tag (ABIN5526635,ABIN5526636) at 5 µg/mL (100 µL/well) can bind Human VEGF-C, His Tag (ABIN2444233,ABIN2181912) with a linear range of 2-20 ng/mL (QC tested).

SDS-PAGE

Image 2. Human VEGF-C, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 97%.