abcam

Product datasheet

Recombinant human VEGFC protein ab155739

1 Image

Overview

Product name	Recombinant human VEGFC protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	HEK 293 cells
Amino Acid Sequence	
Accession	P49767
Species	Human
Sequence	TEETIKFAAAHYNTEILKSIDNEWRKTQCMPREVCIDVG KEFGVATNTFF KPPCVSVYRCGGCCNSEGLQCMNTSTSYLSKTLFEIT VPLSQGPKPVTIS FANHTSCRCMSKLDVYRQVHSIIRR
Molecular weight	15 kDa including tags
Amino acids	103 to 227
Tags	His tag C-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab155739** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	Immobilized Human VEGF R3, Fc Tag at 5 µg/mL (100 µL/well) can bind Human VEGF-C, His Tag with a linear range of 2-20 ng/mL.
Applications	Functional Studies SDS-PAGE
Endotoxin level	< 1.000 Eu/µg
Purity	> 97 % SDS-PAGE.
Form	Lyophilised

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

pH: 7.40
Constituents: 95% PBS, 5% Trehalose
Note: Normally Mannitol or Trehalose are added as protectants before lyophilisation.

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

Growth factor active in angiogenesis, and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. May function in angiogenesis of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR/FLK1) and VEGFR-3 (FLT4) receptors.

Tissue specificity

Spleen, lymph node, thymus, appendix, bone marrow, heart, placenta, ovary, skeletal muscle, prostate, testis, colon and small intestine and fetal liver, lung and kidney, but not in peripheral blood lymphocyte.

Sequence similarities

Belongs to the PDGF/VEGF growth factor family.

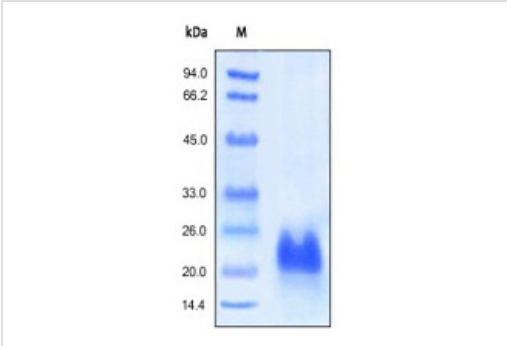
Post-translational modifications

Undergoes a complex proteolytic maturation which generates a variety of processed secreted forms with increased activity toward VEGFR-3, but only the fully processed form could activate VEGFR-2. VEGF-C first form an antiparallel homodimer linked by disulfide bonds. Before secretion, a cleavage occurs between Arg-227 and Ser-228 producing an heterotetramer. The next extracellular step of the processing removes the N-terminal propeptide. Finally the mature VEGF-C is composed mostly of two VEGF homology domains (VHDs) bound by non-covalent interactions.

Cellular localization

Secreted.

Images



SDS-PAGE - Recombinant human VEGFC protein (ab155739)

SDS-PAGE analysis of reduced ab155739 stained overnight with Coomassie Blue.

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