Human Vascular Endothelial cell Growth Factor C (VEGF-C) ELISA Kit

Catalog No: #EK5869

Package Size: #EK5869-1 48T #EK5869-2 96T

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Description

Product Name	Human Vascular Endothelial cell Growth Factor C (VEGF-C) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	Flt4-L; VRP; FLT4 ligand DHM|vascular endothelial growth factor-related protein
Accession No.	P49767
Uniprot	P49767
GeneID	7424;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:5.8 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate VEGFC in samples. An antibody specific for VEGFC has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyVEGFC present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for VEGFC is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of VEGFC bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:VEGF-C has been shown to exhibit angiogenic and lymphangiogenic actions. The VEGF family of growth factors and receptors is involved in the development and growth of the vascular endothelial system. Two of its family members, VEGF-C and VEGF-D, regulate the lymphatic endothelial cells via their receptor VEGFR, thus acting as mitogens for these cells. VEGF-C expression is associated with hematological malignancies. Like VEGF it acts as survival factor on leukemia. Together with the expression of their receptors, VEGF and VEGF-C result in the generation of autocrine loops that may support cancer cell survival and proliferation. Further VEGF-C expression has been shown in gastrointestinal tract malignancies where it correlates with lymphatic invasion, lymphnode metastasis and reduced survival.

Note: This product is for in vitro research use only