

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

Catalog No: #EK5867

Package Size: #EK5867-1 48T #EK5867-2 96T

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## Description

Product Name	Rat Vascular Endothelial cell Growth Factor C (VEGF-C) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	Flt4-L; VRP; FLT4 ligand DHM vascular endothelial growth factor-related protein
Accession No.	O35757
Uniprot	O35757
GeneID	114111;
Storage	<p>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.</p> <p>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).</p>

## Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:6.6 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:Vascular endothelial growth factor receptor-1 was originally discovered through the screening of a human placental cDNA library . It is a receptor tyrosine kinase (RTK) specific for the angiogenic factors VEGF (VEGF-A), PlGF, and VEGF-B. VEGF R1 is expressed in two forms via alternate splicing at the pre-mRNA level: a full-length, membrane bound receptor capable of transducing signal, and a truncated, soluble receptor (sVEGF R1) capable of sequestering ligand or dimerizing with full-length receptor and preventing signal transduction.

Although VEGF R1 null mutations are lethal, deletions of the kinase domain are not, suggesting that the soluble form, or at least the extracellular domain, is all that is necessary for normal vascular development.

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Note: This product is for in vitro research use only