

## Recombinant Rat VEGF 164

Catalog No: CJ96

Description Recombinant Rat Vascular Endothelial Growth Factor A is produced by our Yeast expression system

and the target gene encoding Ala27-Arg190 is expressed.

Source Human Cells

Alternative name Vascular endothelial growth factor A; Vascular permeability factor; VEGF; VEGF-A; VPF

Accession No. P16612-2

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

**Reconstitution** Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Quality Control Purity: Greater than 95% as determined by reducing SDS-PAGE.

Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

**Shipping** The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

Storage Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Amino Acid Sequence APTTEGEQKTHEVVKFMDVYQRSYCRPIETLVDIFQEYPDEIEYIFKPSCVPLMRCAGCCNDEALECVPT SESNVTMQIMRIKPHQSQHIGEMSFLQHSRCECRPKKDRTKPENHCEPCSERRKHLFVQDPQTCKCS

CKNTDSRCKARQLELNERTCRCDKPRR

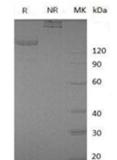
Vascular endothelial growth factor (VEGF/VEGF-A ) is originally known as vascular permeability factor (VPF). It belongs to the PDGF family with a cysteine-knot structure comprised of eight conserved

cysteine residues, and reckoned as a potent mediator in the process of angiogenesis and vasculogenesis in either fetus or adult. VEGF is particularly expressed in supraoptic, paraventricular

nuclei and the choroid plexus of the pituitary, and abundant in the corpus luteum of the ovary and in kidney glomeruli. The rat VEGF protein contains a putative 20 amino acids (aa) signal peptide, and alternative splicing of rat VEGF gene produces isoforms of 120, 144, 164 and 188 aa. Rat VEGF164 respectively displays 97% and 88% aa identity with that regions of mouse and human VEGF. VEGF can bind to the FLT1/VEGFR1 and KDR/VEGFR2 receptors, heparan sulfate and heparin, and play important roles in inducing endothelial cell proliferation, promoting cell migration, inhibiting apoptosis

and inducing permeabilization of blood vessels.

## Background



SDS-Page

