BIOZOL
Diagnostica Vertrieb GmbH, Oehleckerring 11-13
22419 Hamburg, Germany
Telephone: +49 (0)89 3799666-6 | **Fax:** +49 (0)89 3799666-99
E-Mail: info@biozol.de

Product Datasheet

Recombinant Rat VEGF 164
EBT-EPT063

Article Name	Recombinant Rat VEGF 164
Biozol Catalog Number	EBT-EPT063
Supplier Catalog Number	EPT063
Alternative Catalog Number	EBT-EPT063-10
Manufacturer	ELK Biotechnology
Category	Proteine/Peptide
Product Description	Recombinant Rat Vascular Endothelial Growth Factor A is produced by our Yeast expression system and the target gene encoding Ala27-Arg190(Ala36Thr) is expressed....
Molecular Weight	Molecular weight: 19.2 KDa. Apparent molecular weight: 18-23 KDa, reducing conditions
UniProt	P16612
Purity	Greater than 95% as determined by reducing SDS-PAGE.

Application Notes	Redissolve: 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.. Endotoxin: Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test. Biological activity: Immobilized Rat VEGF 164(CatCJ96) at 2μg/ml (100 μl/well) can bind Mouse VEGFR2-Fc(CatC01A).The ED50 of Mouse VEGFR2-Fc(CatC01A) is 22.17 ng/ml. Background: 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