

## Active Recombinant Rat Vegf164 Protein (165 aa)

**Cat. No.** Vegfa-145V    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Vegf164 Protein (165 aa) without tag was expressed in <i>P. pastoris</i> .
<b>Species</b>	Rat
<b>Source</b>	<i>P.pastoris</i>
<b>ProteinLength</b>	165
<b>Description</b>	Vascular Endothelial Growth Factor A164 (VEGF-A164), a member of the cysteine knot growth factor, is one of major isoforms of VEGF-As. VEGF-As are endothelial cell-specific mitogens with angiogenic and vascular permeability-inducing properties. During maturation, rat VEGF-A is alternatively spliced to generate rVEGF-A120, rVEGF-A164 and rVEGF-A188 which correspond to hVEGF-A121, hVEGF-A165 and hVEGF-A189 in human, respectively (the numbers designate the amino acid residues). The active form of rVEGF-A164 is either a homodimeric or heterodimeric polypeptides which bind to the transmembrane tyrosine kinases receptors FLT1, FLK1 or KDR or to the non-tyrosine kinase neuropilin receptors NRP1/2.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 4 ng/mL, measured by cell proliferation assay of HUVEC.
<b>Molecular Mass</b>	38 kDa, observed by non-reducing SDS-PAGE.
<b>AA Sequence</b>	MAPTTEGEQKAHEVVKFMDVYQRSYCRPIETLVDIFQEYPDEIEYIFKPSCVPLMRC

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AGCCNDEALECVPTSESNVTMQIMRIKPHQSQHIGEMSFLQHSRCECRPKKDRTKP  
 ENHCEPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR

**Endotoxin** < 1 EU/μg, determined by LAL method.

**Purity** > 95% as analyzed by reducing SDS-PAGE.

**Storage** Lyophilized recombinant rat Vascular Endothelial Growth Factor A164(rrVEGF-A164) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rrVEGF-A164 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

**Storage Buffer** Lyophilized after extensive dialysis against PBS.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O or PBS at 100 μg/mL.

## GENE INFORMATION

**Gene Name** *Vegfa* vascular endothelial growth factor A [ *Rattus norvegicus* ]


**Official Symbol** *Vegfa*

**Synonyms** VEGFA; vascular endothelial growth factor A; VPF; VEGF-A; vascular permeability factor; Vegf; VEGF164;

**Gene ID** 83785

**mRNA Refseq** NM\_001110333

**Protein Refseq** NP\_001103803

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P16612

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