

## Active Recombinant Equine VEGFA

Cat. No. VEGFA-209E Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Equine VEGFA was expressed in Yeast.

**Species** Equine

**Source** Yeast

**Description**

Vascular endothelial growth factor (VEGF) proteins stimulate vasculogenesis and angiogenesis. They are part of the system that restores the oxygen supply to tissues when blood circulation is inadequate. The normal function of VEGF proteins is to create new blood vessels during embryonic development, new blood vessels after injury, muscle following exercise, and new vessels (collateral circulation) to bypass blocked vessels. The VEGF family has six members, including VEGF-A, VEGF-B, VEGF-C, VEGF-D, VEGF-E, and Placental Growth Factor (PGF). Activity of VEGF-A, as its name implies, has been studied mostly on cells of the vascular endothelium, although it does have effects on a number of other cell types (e.g., stimulation monocyte/macrophage migration, neurons, cancer cells, kidney epithelial cells). In vitro, VEGF-A has been shown to stimulate endothelial cell mitogenesis and cell migration. VEGF-A is also a vasodilator and increases microvascular permeability and was originally referred to as vascular permeability factor (VPF).

**Form** Lyophilized

**Bio-activity** In testing

**Molecular Mass** 19.2 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>AA Sequence</b>	APMAEGEHKT HEVVKFMDVY QRSYCRPIET LVDIFQEYPD EIEYIFKPSC VPLMRCGGCC NDEGLECVPT AEFNITMQIM RIKPHQSQHI GEMSFLQHSK CECRPKKDKA RQENPCGPCS ERRKHLFVQD PQTCKCSCKN TDSRCKARQL ELNERTCRCD KPRR (164)
<b>Purity</b>	>95% as visualized by SDS-PAGE analysis.
<b>Storage</b>	Stable for up to twelve months from date of receipt at -20°C. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

## GENE INFORMATION

<b>Gene Name</b>	VEGFA vascular endothelial growth factor A [ <i>Equus caballus</i> (horse) ]
<b>Official Symbol</b>	VEGFA
<b>Synonyms</b>	VEGFA; vascular endothelial growth factor A; VPF; VEGF-A; vascular permeability factor; vascular endothelial growth factor 164
<b>Gene ID</b>	<a href="#">100033839</a>
<b>mRNA Refseq</b>	<a href="#">NM_001081821</a>
<b>Protein Refseq</b>	<a href="#">NP_001075290</a>
<b>UniProt ID</b>	Q9GKR0

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<b>Chromosome Location</b>	20
<b>Pathway</b>	HIF-1 signaling pathway; MicroRNAs in cancer; PI3K-Akt signaling pathway

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