

Recombinant Bovine Vascular Endothelial Growth Factor A

Cat. No. VEGFA-366B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine VEGF-A was expressed in Yeast. MW= 19.2 kDa (164 aa).
Species	Bovine
Source	Yeast
Description	Vascular endothelial growth factor (VEGF), a potent proangiogenic cytokine is the key signal used by oxygen-hungry cells to promote growth of blood vessels. It binds to specialized receptors on the surfaces of endothelial cells and directs them to build new vessels. VEGF are crucial regulators of vascular development during embryogenesis (vasculogenesis) and blood-vessel formation in the adult (angiogenesis). Abnormal VEGF function is associated with inflammatory diseases including atherosclerosis, and hyperthyroidism.
Formulation/ Reconstitution	Lyophilized. Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.
Purification	Ion-exchange chromatography.
Purity	>95% as visualized by SDS-PAGE analysis.
Amino Acid Sequence	APMAEGGQKP HEVVKFMDVY QRSFCRPIET LVDIFQEYPD EIEFIFKPSC VPLMRCGGCC NDESLECVPT EEFNITMQIM RIKPHQSQHI GEMSFLQHNK CECRPKKDKA RQENPCGPCS ERRKHLFVQD PQTCKCCKN TDSRCKARQL ELNERTCRCD KPRR.

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Bioactivity	In testing.
Stability And Storage	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.
GENE INFORMATION	
Gene Name	VEGFA vascular endothelial growth factor A [Bos taurus]
Synonyms	vascular endothelial growth factor A; VEGFA; VEGF; VPF; VEGF-A; vascular permeability factor
Gene ID	281572
mRNA Refseq	NM_174216.1
Protein Refseq	NP_776641.1
UniProt ID	P15691
Chromosome Location	23
Pathway	Bladder cancer; Cytokine-cytokine receptor interaction; Focal adhesion; Pancreatic cancer; Pathways in cancer; Renal cell carcinoma; mTOR signaling pathway
Function	cytokine activity; growth factor activity; heparin binding; protein homodimerization activity

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