



## Technical Data Sheet

### Recombinant Human VEGF<sub>165</sub> (rHuVEGF<sub>165</sub>)

#### Human VEGF<sub>165</sub>

VEGF is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells and promotes angiogenesis and vascular permeability. Expressed in vascularized tissues, VEGF plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicated VEGF in the induction of tumor metastasis and intra-ocular neovascular syndromes. VEGF signals through three receptors; fms-like tyrosine kinase (flt-1), KDR gene product (the murine homolog of KDR is flk-1 gene product) and the flt4 gene product.

#### Recombinant Human VEGF<sub>165</sub> (rHuVEGF<sub>165</sub>)

Catalog Number:	RC216-16
Size	2 ug/ 10 ug/ 1 mg
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Recombinant human VEGF <sub>165</sub> is a 38.2 kDa disulfide-linked homodimeric protein consisting of two 165 amino acid polypeptide chains.
Purity:	>95% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. Determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 1.0-8.0 ng/ml.
Physical Appearance	Sterile Filtered White Lyophilized (freeze-dried) powder
Endotoxin:	Less than 1EU/ $\mu$ g of rHuVEGF <sub>165</sub> as determined by LAL method.
Formulation:	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4.
Amino Acid Sequence:	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQETP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQHQH IGEMSFLOHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR



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- Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at -20°C. Further dilutions should be made in appropriate buffered solutions.
- Storage:** This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximum stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeat freeze/thaw cycles.
- Usage:** This material is offered by Bio Basic Inc for research, laboratory or further evaluations purposes. Not for human use.