

## Product Information Sheet

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

#### Animal-Free manufactured

**Catalog#** AF-100-20

**Source:** *E.coli*

**Description:** 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 implicates VEGF in the induction of tumor metastasis and intra-ocular neovascular syndromes. VEGF signals through the three receptors; *fms*-like tyrosine kinase (flt-1), KDR gene product (the murine homolog of KDR is the flk-1 gene product) and the flt4 gene product. Recombinant human VEGF<sub>165</sub> is a 38.2 kDa, disulfide-linked homodimeric protein consisting of two 165 amino acid polypeptide chains.

**Synonyms:** Vascular Endothelial Growth Factor, VPF, Folliculostellate cell-derived growth factor, Glioma-derived endothelial cell mitogen

**Sequence:** APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI  
MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR

**Authenticity:** Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Purity:** ≥ 98% by SDS-PAGE gel and HPLC analyses.

**Endotoxin:** Endotoxin level is < 0.1 ng/μg of protein (<1EU/μg).

**Protein Content:** Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Biological activity:** 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.

For a list of references please visit our website at [www.peprotech.com](http://www.peprotech.com)

**Country of Origin:** USA

Lot-specific information is not available on Product Information Sheet.  
See Certificate of Analysis for details.

**Usage:** For Research Use Only. Not for use in diagnostic or therapeutic procedures.

#### Storage/Stability:

Product Form	Temperature	Storage Time
Lyophilized	-20°C to -80°C	See expiration date
Lyophilized	4°C	6 months
Lyophilized	RT	1 month
Diluted as per CoA	-20°C to -80°C	5 months
Diluted as per CoA	2°C to 8°C	1 week
**Avoid repeated freeze-thaw cycles.		

Updated 11/30/2014