**Product:** Recombinant Human VEGF-165  
**Cat #:** 300-196P  
**Powder**

**Description:** Vascular Endothelial Growth Factor-A (VEGF-A) was originally isolated from tumor cells and is produced by a wide variety of cell types. In addition to stimulating vascular growth and vascular permeability, VEGF-A may play a role in stimulating vasodilation via nitric oxide-dependent pathways. VEGF-A has several variants, VEGF-165 being the most abundant. Alternate names: VEGF-A, VPF, glioma-derived endothelial cell mitogen

**MW:** Non-glycosylated homodimer, containing two 165 amino acids, with a total molecular weight of 38.2 kDa.

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Source:** E. coli

**Formulation:** Recombinant human VEGF 165 is lyophilized with no additives.

**Reconstitution:** Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Stability:** Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Biological Activity:** Recombinant human VEGF-165 has full biological activity when compared to standards. The ED50, determined by the dose dependent proliferation of HUVECs, is 3.1-4.6 ng/mL.

**Endotoxin Level:** Measured by kinetic LAL analysis and is 0.10 EUs/μg protein.

**AA Sequence:**

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APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS
CVPLMRCCGC CNDEGLECVP TEESNITMQI MRKPHQGQH IEGMSFLQHN
KCERPKKDR ARQENPGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ
LELNRCTCRC DKPRR
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Purity greater than 95% determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

Protein content determined by HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**