

**VEGF165, 207-371aa, Human, His tag, E.coli**

**Cat.NO.: TP04472**

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3th Edition

**Synonyms:**Vascular endothelial growth factor A isoform d, VPF, VEGF, VEGF-A

**Description:**Vascular endothelial growth factor (VEGF) is homodimeric, heparin-binding glycoprotein involved in both angiogenesis and vasculogenesis. VEGF is expressed as multiple alternately spliced isoforms of VEGF121, 165, 189 and 206. VEGF binds to the receptor tyrosine kinases VEGF R1 (Flt-1) and VEGF R2 (KDR/Fik-1) to activate signal transduction and regulate both physiological and pathological angiogenesis. Recombinant human VEGF165 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

**Form:**Liquid. In 20mM Tris-HCl(pH8.5), 50%glycerol, 5mM DTT, 200mM NaCl, 2mM EDTA

**Molecular Weight:**21.3kDa (185aa), conformed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYYPDEIEYIFKPSCVPLM  
RCGGCCNDEGLECVPTESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQENPCGPCSERRKHLFV  
QDPQTCKCCKNTDSRCKARQLELNERTCRCDKPRR

**Purity:**> 95% by HPLC

**Concentration:**0.5mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.