

**VEGF165, 207-370aa, Human, E.coli**

**Cat.NO.: TP04471**

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3th Edition

**Synonyms:**Vascular endothelial growth factor A, VEGF, MVCD1, VPF

**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 was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 2mM EDTA, 0.1mM PMSF, 1mM DTT, 10% glycerol.

**Molecular Weight:**19.3 kDa (166aa), confirmed by MALDI-TOF

**Sequences:**

MAPMAEGGGQNHHEVVKFMVDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPCVPLMRCGGCCNDEGLECVPTTEES  
NITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQENPCGPCSERRKHLFVQDPQTCKCCKNTDSRCKA  
RQLELNERTCRCDKPRR

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/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.