

Product information



VEGF121, 207-327 aa, Human, His Tagged, Recombinant, *E.coli*

Cat. No. IBVEG0901

Full name: Vascular endothelial growth factor A isoform f

NCBI Accession No.: NP_001020541

Synonyms: 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/Flk-1) to activate signal transduction and regulate both physiological and pathological angiogenesis. Recombinant VEGF121 protein was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid in 20mM Tris pH 8.0 containing 10% glycerol.

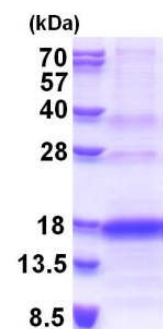
Molecular Weight: 16.3 kDa (142aa), confirmed by MALDI-TOF

Purity: > 90% by SDS PAGE

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

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

Biological activity: The ED50 for this effect is < 4.2 ng/ml. Measured in a cell proliferation assay using NIH-3T3 cell.



15% SDS-PAGE (3ug)

Activity Assay

1. Cell line: NIH-3T3 (Mus mosculus/ embryo)
2. Maintenance Condition: RPMI 1640 containing 10% FBS
3. Assay Medium: serum free RPMI 1640
4. Cell Density: 2 x 10⁴ cells/well (96 well plate, final volume 100ul)
5. Serum Free Starvation : 24hr with RPMI1640
6. Incubation Time: 24 hr (after sample treatment)
7. Concentration Range: 100 pg/ml - 10 ug/ml
8. Detection method: BrdU assay

Sequences of amino acids:

MGSSHHHHHH SGLVPRGSH MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CNDEGLECV
PTEESNITMQ IMRIKPHGQQ HIGEMSFLQH NKCECRPKKD RARQEKCDKP RR

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)
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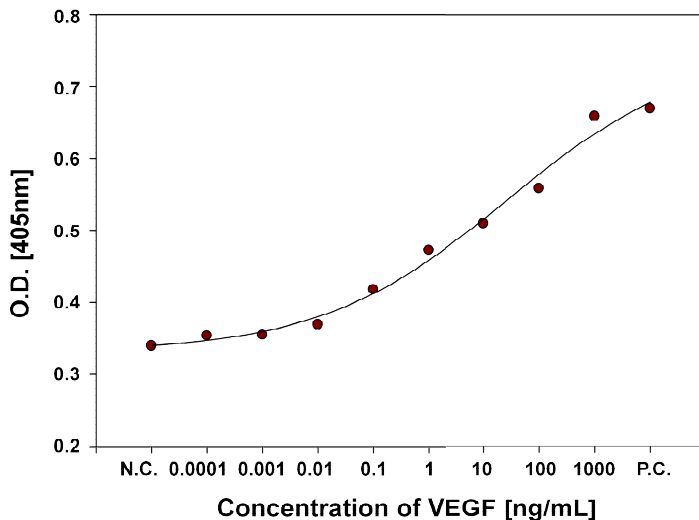
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NIH/3T3 cell proliferation was determined by BrdU incorporation method at 405 nm. This test was performed duplicate.

N.C. : negative control [only 0.1% FBS]

P.C. : positive control [10% FBS]

General references:

Yasuji Ueda., *et al* (2004) *Cancer Chemother Pharmacol.* **54**(1):16-24

Neufeld G., *et al*(1999) *FASEB J.* **13**(1):9-22

Raines, E.W. *et al.* (1985) *Methods Enzymol.* **109**:749-73

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

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