

VEGF121, 207-327 aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP0282

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 conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Form: Liquid in 20 mM Tris-HCl buffer (pH 8.0) containing 10 % glycerol

Molecular Weight: 14.2 kDa (122aa), confirmed by MALDI-TOF

Purity: > 95% by SDS PAGE

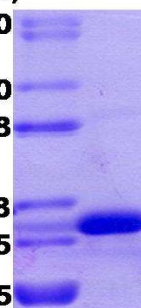
Concentration: 1 mg/ml (determined by Bradford assay)

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

Biological activity: Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED50 for this effect is ≤4 ng/ml.

(kDa)

70
40
28
18
13.5
8.5



15% SDS-PAGE (3µg)

Sequences of amino acids:

MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CCNDEGLECV PTEESNITMQ IMRIKPHQGQ
HIGEMSFLQH NKCECRPKKD RARQEKCDKP RR

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.

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

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



Manufactured for:

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