Recombinant human VEGF 165 protein

Catalog Number: ATGP1248

PRODUCT INFORMATION

Expression system
E.coli

Domain
207-371aa

UniProt No.
P15692

NCBI Accession No.
NP_001020539.2

Alternative Names
Vascular endothelial growth factor A isoform d, VPF, VEGF, VEGF-A

PRODUCT SPECIFICATION

Molecular Weight
21.4 kDa (186aa) conformed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) 5mM DTT, 50 % glycerol, 200mM NaCl, 2mM EDTA

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 human

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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.

Amino acid Sequence

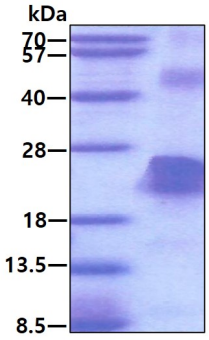
<MGSSHHHHHH SSGLVPRGSH M>APMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CCNDEGLECV PTEESNITMQ IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQENPCGP CSERRKHLFV QDPQTCKCSC KNTDSRCKAR QLELNERTCR CDKPRR

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.