

Recombinant human VEGF 165 protein

Catalog Number: ATGP1449

PRODUCT INFORMATION

Expression system

E.coli

Domain

207-371aa

UniProt No.

P15692

NCBI Accession No.

NP_001020539

Alternative Names

Vascular endothelial growth factor A, VEGF, MVCD1, VPF

PRODUCT SPECIFICATION

Molecular Weight

19.3 kDa (166aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH8.5) containing 2mM EDTA, 0.1mM PMSF, 1mM DTT, 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

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

Tag

Non-Tagged

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

Amino acid Sequence

MAPMAEGGGQ NHHEVVKFMD VYQRSYCHPI ETLVDIFQEY PDEIEYIFKP SCVPLMRCGG CCNDEGLECV PTEESNITMQ
IMRIKPHQGQ HIGEMSFLQH NKCECRPKKD RARQENPCGP CSERRKHLFV QDPQTKKCSC KNTDSRCKAR QLELNERTCR
CDKPRR

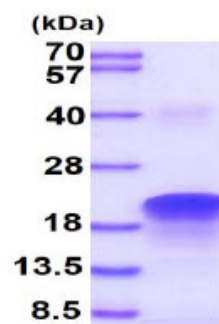
General References

Murphy J.F., et al. (2001) FASEB J. 15:1667-1669

Woolard J., et al. (2004) Cancer Res. 64:7822-7835

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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