Recombinant human VEGF 121/VEGFA protein

Catalog Number: VEG0901

PRODUCT INFORMATION

Expression system
E.coli

Domain
207-327aa

UniProt No.
P15692

NCBI Accession No.
NP_001020541.2

Alternative Names
Vascular endothelial growth factor A isoform f, Vascular permeability factor, VPF, VEGF

PRODUCT SPECIFICATION

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

Concentration
0.5mg/ml (determined by Bradford assay)

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

Purity
> 90% by SDS-PAGE

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

Biological Activity
Measured in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED50 range ≤ 12ng/ml

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

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

Recombinant human VEGF 121/VEGFA protein

Catalog Number: VEG0901

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.

Amino acid Sequence

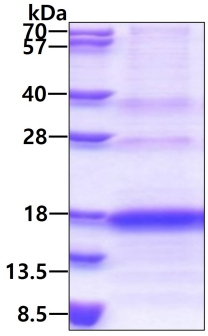
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General References

Yasuji ueda., et al (2004) Cancer Chemother Pharmacol. 54(1):16-24
Neufeld G., et all(1999) FASEB J. 13(1):9-22

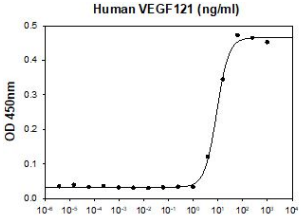
DATA

SDS-PAGE



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

Biological Activity



Human VEGF121 stimulates cell proliferation of the HUVEC human umbilical vein endothelial cells. The ED50 range ≤12 ng/ml.