

Recombinant mouse VEGF 120/VEGFA protein

Catalog Number: ATGP0389

PRODUCT INFORMATION

Expression system

E.coli

Domain

27-146aa

UniProt No.

Q00731-3

NCBI Accession No.

NP_001020428.1

Alternative Names

Vascular endothelial growth factor A isoform 3, Vegf-a, Vegf120, Vpf

PRODUCT SPECIFICATION

Molecular Weight

16.3 kDa (141aa) 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 $\leq$ 15ng/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

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Description

VEGF-A, also known as vascular endothelial growth factor, belong to the VEGF family that mediate angiogenesis. This protein is produced by diverse cell types, including aortic vascular smooth muscle cells, keratinocytes, macrophages and many tumor cells. VEGF-A has important roles in mammalian vascular development and in diseases involving abnormal growth of blood vessels such as tumor-related angiogenesis. Recombinant VEGF-A protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>APTTEGEQK SHEVIKFM DV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKCDKPR R

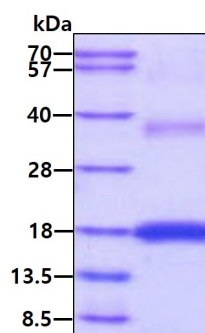
General References

Gerber H., et al. (2002) Nature. 417: 954-958.

Shibuya M., et al. (2006) J Biochem Mol Biol. 39:469-478.

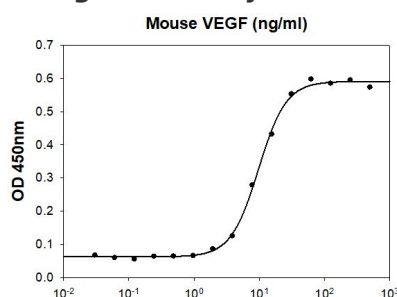
DATA

SDS-PAGE



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

Biological Activity



Mouse VEGF in a cell proliferation assay using HUVEC human umbilical vein endothelial cells. The ED50 range ≤ 15 ng/ml.