

AR09272PU-L

Mouse VEGF-A (His-tag) - Purified

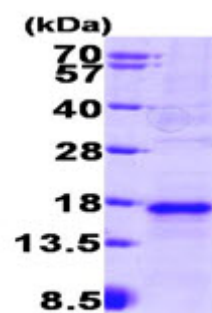
Alternate names:	VEGF, VEGFA, VPF, Vascular endothelial growth factor A, Vascular permeability factor
Quantity:	0.25 mg
Concentration:	0.5 mg/ml (determined by Bradford assay)
Background:	VEGF-A, also known as vascular endothelial growth factor, belong to the VEGF family that mediate angiogenesis. This 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.
Uniprot ID:	Q00731
NCBI:	NP_001020428
GeneID:	22339
Species:	Mouse
Source:	E. coli
Format:	State: Liquid purified protein Purity: >90% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Description:	Recombinant mouse VEGF-A protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHH SSGLVPRGSH MAPTTEGEQK SHEVIKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCAGC CNDEALECVP TSESNITMQI MRIKPHQSQH IGEMSFLQHS RCECRPKKDR TKPEKCDKPR R Biological Activity: Measured in a cell proliferation assay using NIH-3T3 mouse embryonic fibroblast. The ED50 for this effect is 0.5-1.5 ng/ml. Activity Assay 1. Cell line: NIH-3T3 (Mus musculus/Mouse embryonic fibroblast) 2. Maintenance Condition: RPMI 1640 containing 10% FBS 3. Assay medium: serum free RPMI 1640 4. Cell density: 2 x 10⁴ cells/well (96 well plate, final volume 100ul) 5. Incubation time: 24 hr (after sample treatment) 6. Concentration range: 1 pg/ml – 1 ug/ml 7. Detection method : BrdU assay Molecular weight: 16.3 kDa (141 aa) confirmed by MALDI-TOF
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

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

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

Pictures:



15% SDS-PAGE (3 μ g)

Recombinant mouse VEGF, His-tagged:
15% SDS-PAGE (3 μ g)

