

Recombinant Mouse Vascular Endothelial Growth Factor A

Cat. No. Vegfa-313M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse VEGF-A protein was expressed in E.coli and purified by using conventional chromatography techniques. MW=16.3 kDa (141aa).
Species	Mouse
Source	E.coli
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol.
Molecular Weight	16.3 kDa (141aa), confirmed by MALDI-TOF
Purity	> 90% by SDS-PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
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.

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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

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name [Vegfa vascular endothelial growth factor A \[Mus musculus \]](#)

Synonyms

Vegfa; vascular endothelial growth factor A; Vpf; Vegf; Vegf-a; Vegf120; Vegf164; Vegf188; VPF; VEGF-A; MGC70609; MVCD1; VEGF; Vascular permeability factor; vascular endothelial growth factor; vascular endothelial growth factor isoform VEGF165

Gene ID [22339](#)

mRNA Refseq [NM_001025250](#)

Protein Refseq [NP_001020421](#)

UniProt ID [Q00731](#)

Chromosome Location

17 24.2cM

Function

growth factor activity; heparin binding

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