

## Active Recombinant Mouse Vegfa, Isoform 164, His-tagged, Biotinylated

**Cat. No.** Vegfa-727M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Mouse VEGF164, also known as VEGF, is expressed as a 175-amino acid protein consisting of the region Ala27 - Arg190 of mouse VEGF (UniProt Accession #Q00731-2, isoform VEGF164) and a C-terminal His-tag. It contains 1 potential sites for N-linked glycosylation and exists as a dimer under non-reducing condition.
<b>Source</b>	Human cells
<b>Species</b>	Mouse
<b>Tag</b>	His
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Binds its receptors (FLT1, KDR) and anti-VEGF monoclonal antibodies with high affinity (KD< 10 nM as measured by ELISA). Stimulates HUVEC (human umbilical vein endothelial cells) proliferation and certain tumor cell growth.
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 20.6; Estimated by SDS-PAGE under reducing condition (kDa): ~30 (probably due to glycosylation)
<b>AA Sequence</b>	APTTEGEQKSHEVIKFMVDVYQRSYC RPIETLVDIFQEYPDEIEYIFKPSC VPLMRCAGCCNDEALECVPTSESN ITMQIMRIKPHQSQHIGEMSFLQHS RCECRPKKDRTPENHCEPCSERRK HLFVQDPQTCKCCKNTDSRCKAR

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QLELNERTCRCDKPRRSTGHHHHHH HH

**Endotoxin** <0.1 eu per 1 µg of purified recombinant protein determined by the lal>

**Purity** >95% judged by SDS-PAGE under reducing condition

**Storage** The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** Vegfa vascular endothelial growth factor A [ Mus musculus ]

**Official Symbol** Vegfa

**Synonyms** VEGFA; vascular endothelial growth factor A; vascular permeability factor; Vpf; Vegf; Vegf120; Vegf164; Vegf188;

**Gene ID** 22339

**mRNA Refseq** NM\_001025250

**Protein Refseq** NP\_001020421

**MIM**

**UniProt ID**

**Pathway** Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem;

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Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem;

**Function**

cell surface binding; chemoattractant activity; cytokine activity; fibronectin binding; growth factor activity; heparin binding; platelet-derived growth factor receptor binding; protein heterodimerization activity; protein homodimerization activity; receptor agonist activity; vascular endothelial growth factor receptor 1 binding; vascular endothelial growth factor receptor 2 binding; vascular endothelial growth factor receptor binding;

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