

## Active Recombinant Mouse Vegfa Protein

**Cat. No.** Vegfa-6915M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of Mouse vascular endothelial growth factor A (Vegfa), transcript variant 1 without tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	<p>This gene is a member of the PDGF/VEGF growth factor family. It encodes a heparin-binding protein, which exists as a disulfide-linked homodimer. This growth factor induces proliferation and migration of vascular endothelial cells, and is essential for both physiological and pathological angiogenesis. Disruption of this gene in mice resulted in abnormal embryonic blood vessel formation. This gene is upregulated in many known tumors and its expression is correlated with tumor stage and progression. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. There is also evidence for alternative translation initiation from upstream non-AUG (CUG) codons resulting in additional isoforms. A recent study showed that a C-terminally extended isoform is produced by use of an alternative in-frame translation termination codon via a stop codon readthrough mechanism, and that this isoform is antiangiogenic. Expression of some isoforms derived from the AUG start codon is regulated by a small upstream open reading frame, which is located within an internal ribosome entry site. [provided by RefSeq, Nov 2015]</p>
<b>Bio-activity</b>	Determined by the dose-dependent stimulation of the proliferation of human umbilical

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vein endothelial cells (HUVEC) using a concentration range of 1.0-5.0 ng/mL.

**Molecular Mass**

39 kDa

**AA Sequence**

MAPTTEGEQKSHEVIKFMVDVYQRSYCRPIETLVDIFQEYPDEIEYIFKPSCVPLMRCA  
GCCNDEALECVPTSESNITMQIMRIKPHQSQHIGEMSFLQHSRCECRPKKDRTPKE  
KHCEPCSERRKHFLVQDPQTCKCCKNTDSRCKARQLELNERTCRCDKPRR

**Endotoxin**

< 0.1 ng/μg of protein (< 1 EU/μg)

**Purity**

> 95% as determined by SDS-PAGE and Coomassie blue staining

**Stability**

Stable for at least 6 months from date of receipt under proper storage and handling conditions.

**Storage**

Store at -80 centigrade.

**Storage Buffer**

Lyophilized from a 0.2 μM filtered solution of 20 mM phosphate buffer, 100 mM NaCl, pH 7.2

## GENE INFORMATION

**Gene Name**

Vegfa vascular endothelial growth factor A [ *Mus musculus* (house mouse) ]

**Official Symbol**

Vegfa

**Synonyms**


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

**Gene ID**

22339

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mRNA Refseq [NM\\_001025250](#)

Protein Refseq [NP\\_001103736](#)

UniProt ID [Q00731](#)

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