

Recombinant Mouse Vegfa protein, His & T7-tagged

Cat. No. Vegfa-1608M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse Vegfa aa. (Ala27~Arg190 (Accession # Q00731)) fused with N-terminal His & T7 tag was produced in E. coli cells.

Species Mouse

Source E.coli

ProteinLength Ala27~Arg190

Description

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.

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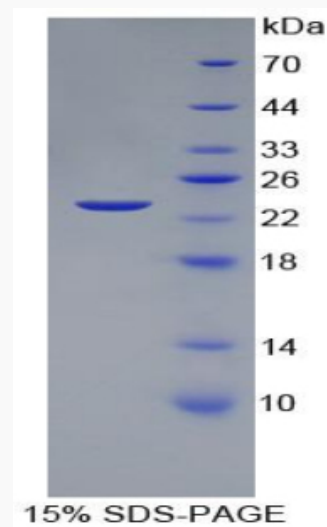
| | |
|--------------------------|---|
| Form | Freeze-dried powder |
| Molecular Mass | Predicted Molecular Mass: 23.1kDa |
| Endotoxin | <1.0EU per 1ug (determined by the LAL method) |
| Purity | >95% |
| Applications | SDS-PAGE; WB; ELISA; IP. |
| Stability | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months. |
| Storage buffer | Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl. |
| Reconstitution | Reconstitute in sterile PBS, pH7.2-pH7.4. |
| Isoelectric Point | 8.1 |
| GENE INFORMATION | |
| Gene Name | Vegfa vascular endothelial growth factor A [Mus musculus (house mouse)] |
| Official Symbol | Vegfa |
| Synonyms | Vegfa; vascular endothelial growth factor A; Vpf; Vegf; vascular permeability factor |

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| | |
|----------------|----------------|
| Gene ID | 22339 |
| mRNA Refseq | NM_001025250.3 |
| Protein Refseq | NP_001020421.2 |
| UniProt ID | Q00731 |

SDS-PAGE

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