

Active Recombinant Mouse Vegfa Protein

Cat. No. Vegfa-7366M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Murine VEGF164 is produced as a homodimer consisting of 164 amino acid residues without tag was expressed in insect cell.
Species	Mouse
Source	Insect Cells
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.
Form	Lyophilized without stabilizer

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	1 x 10 ⁶ units/mg The ED50 for stimulation of 3H-thymidine incorporation and cell proliferation by human umbilical vein endothelial cells for VEGF164 has been determined to be in the range of 1-2 ng/mL.
Molecular Mass	48 kDa
Endotoxin	< 0.1 ng/μg of VEGF
Purity	> 95 % > 95%, by SDS-PAGE and visualised by silver stain.
Stability	Shelf life: One year from despatch.
Storage	Store VEGF164 Lyophilized at -20 to -70 centigrade. Reconstituted VEGF164 should be stored in working aliquots at -20 centigrade. Avoid repeated freeze-thaw cycles!
Reconstitution	Restore in PBS or medium containing at least 0.1 % human or bovine serum albumin to a concentration not lower than 50 μg/mL.

GENE INFORMATION

Gene Name	Vegfa vascular endothelial growth factor A [Mus musculus (house mouse)]
Official Symbol	Vegfa
Synonyms	Vegfa; vascular endothelial growth factor A; V; Veg; Vpf; Vegf; VEGF12; VEGF16; VEGF18; vascular endothelial growth factor A; vascular permeability factor
Gene ID	22339
mRNA Refseq	NM_001025250

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_001020421
----------------	--------------

UniProt ID	Q00731
------------	--------

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA