

Active Recombinant Mouse Vegfa Protein (Ala27-Lys140), C-His tagged, Animal-free, Carrier-free

Cat. No. Vegfa-91M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Vegfa Protein (Ala27-Lys140) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Mouse
Source	E.coli
ProteinLength	Ala27-Lys140
Description	Vascular Endothelial Growth Factors 121 (VEGF121) is a truncated version of VEGF165, which produced in E. coli is a homodimer, non-glycosylated, polypeptide chain and having a molecular mass of 28.4 kDa. There is three different isoforms (120, 164 and 188 a.a.) found in mouse. VEGF 121 shows that lack basic heparin-binding regions and are freely diffusible. Mouse VEGF121 shares 98% identity with corresponding regions of rat, 89% with canine, feline, equine and porcine, and 87% with human, ovine and bovine VEGF, respectively.
Form	Lyophilized
Bio-activity	Measure by its ability to induce proliferation in HUVEC cells. The ED50 for this effect is < 3 ng/mL.
Molecular Mass	The protein has a calculated MW of 15.01 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>95% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

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
mRNA Refseq	NM_001025250

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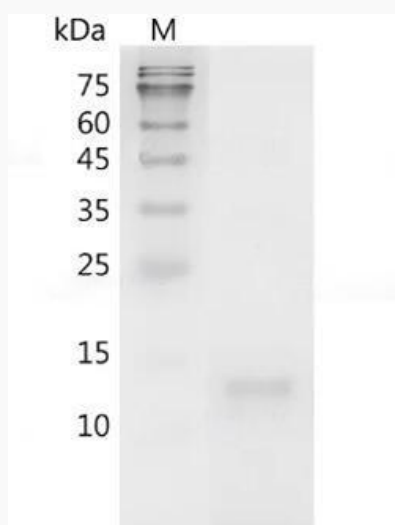
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Protein Refseq NP_001020421

UniProt ID Q00731

SDS-PAGE analysis
of recombinant
mouse VEGF121.



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