

Active Recombinant Human VEGFA Protein (Ala27-Arg191), C-His tagged, Animal-free, Carrier-free

Cat. No. VEGFA-292H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGFA Protein (Ala27-Arg191) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ala27-Arg191
Description	Vascular Endothelial Growth Factors 165(VEGF165) is a potent growth and angiogenic cytokine which belongs to the VEGF family, includes VEGF-A, VEGF-B, VEGF-C, VEGF-D, VEGF-E, and PlGF. Human VEGF165 is an abundant glycosylated cytokine composed of two identical 165 amino acid chains. Human VEGF165 plays an important role in embryonic vasculogenesis, angiogenesis and neurogenesis.
Form	Lyophilized
Bio-activity	Measure by its ability to induce HUVEC cells proliferation. The ED50 for this effect is < 5 ng/mL. The specific activity of recombinant human VEGF165 is approximately $>1.4 \times 10^6$ IU/mg.
Molecular Mass	The protein has a calculated MW of 20.11 kDa. The protein migrates as 21 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% 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 [Homo sapiens (human)]
Official Symbol	VEGFA
Synonyms	VEGFA; vascular endothelial growth factor A;
Gene ID	7422
mRNA Refseq	NM_001171626
Protein Refseq	NP_001165097

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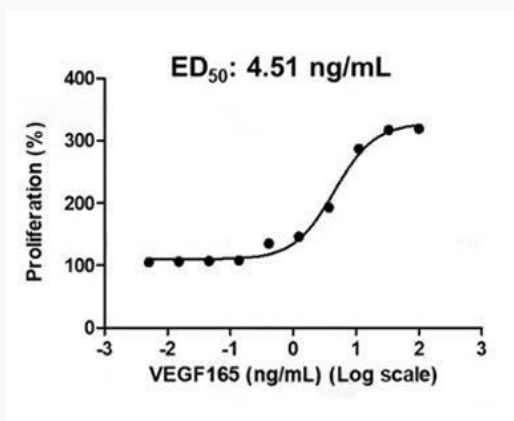
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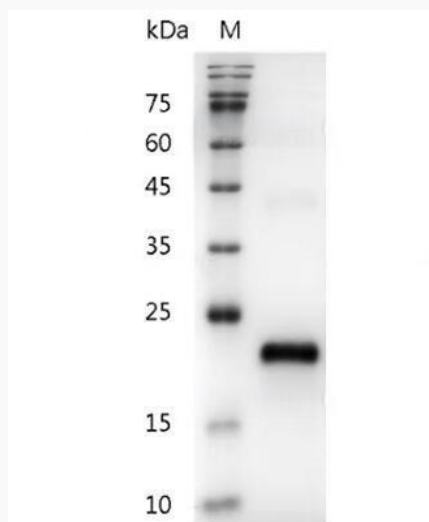
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Activity



Human VEGF165, His Tag, E. coli (LDG168PHE) induced HUVEC cell proliferation, with the ED50 at 4.51 ng/mL.

**SDS-PAGE analysis
of recombinant
human VEGF165.**



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