

Active Recombinant Human VEGFA Protein (Ala1-Arg121), C-His tagged, Animal-free, Carrier-free

Cat. No. VEGFA-291H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGFA Protein (Ala1-Arg121) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ala1-Arg121
Description	Vascular Endothelial Growth Factors 121(VEGF121) is one of five VEGF splice variants of 121, 145, 165, 183, 189, and 206 amino acids (aa) in length. VEGF121 is the only VEGF which lacks heparin-binding activity and freely diffusible. VEGF binds the type I transmembrane receptor tyrosine kinases VEGF R1 (also called Flt-1) and VEGF R2 (Flk-1 /KDR) on endothelial cells to activate signal transduction and regulate both physiological and pathological angiogenesis.
Form	Lyophilized
Bio-activity	Measure by its ability to induce proliferation in HUVEC cells. The ED50 for this effect is < 2.5 ng/mL.
Molecular Mass	The protein has a calculated MW of 15.00 kDa. The protein migrates as 15 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 H2O 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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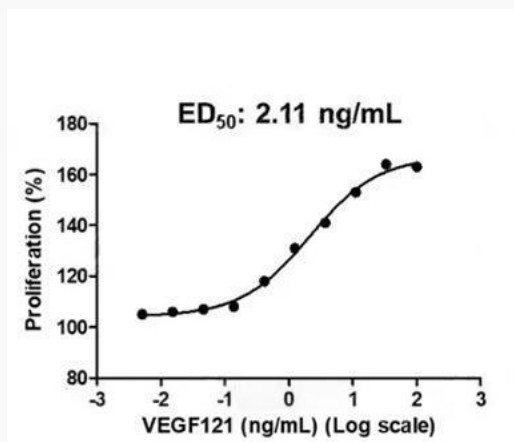
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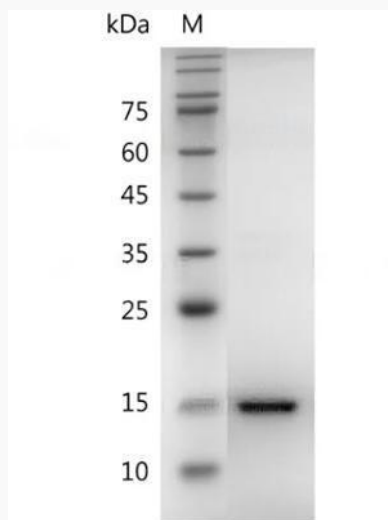
UniProt ID A0A0Y0IMM4

Activity



Human VEGF121, His Tag, E. coli (LDG060PHE) induced HUVEC cell proliferation, with the ED₅₀ at 2.11 ng/mL.

SDS-PAGE analysis of recombinant human VEGF121.



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