

Active Recombinant Equine VEGF-165 Protein

Cat. No. VEGFA-259E Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant Equine VEGF-165 Protein without tag was expressed in E. coli. |
| Species | Equine |
| Source | E.coli |
| Description | Vascular endothelial growth factor-A (VEGF-A) is produced by a wide variety of cell types, including tumor and vascular cells. VEGF-A is a mediator of vascular growth, vascular permeability, and plays a role in stimulating vasodilation via nitric oxide-dependent pathways. VEGF-A has several alternatively spliced isoforms, with VEGF-165 being the most abundant. The VEGF-165 isoform is a secreted protein that acts on receptors VEGFR-1 and VEGFR-2 to modulate endothelial cell proliferation and angiogenesis. |
| Bio-activity | HUVEC Proliferation, ED50≤10 ng/mL |
| Molecular Mass | Dimer, 19.3/38.6 kDa (with 165/330 amino acids) |
| AA Sequence | MAPMAEGEHKTHEVVKFMDVYQRSYCRPIETLVDIFQEYYPDEIEYIFKPSCVPLMRC GGCCNDEGLECVPTAEFNITMQIMRIKPHQSQHIGEMSFLQHSKCECRPKKDKARQ ENPCGPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR |
| Endotoxin | ≤1 EUs/μg, Kinetic LAL |
| Purity | ≥95%, Reducing and Non-Reducing SDS PAGE |

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|-----------------------|---|
| Stability | <p>12 months from date of receipt when stored at -20 to -80 centigrade as supplied.</p> <p>1 month when stored at 4 centigrade after reconstituting as directed.</p> <p>3 months when stored at -20 to -80 centigrade after reconstituting as directed.</p> |
| Storage | Storage Prior to Reconstitution: -20 centigrade |
| Storage Buffer | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM Sodium Phosphate, pH 7.5 |
| Reconstitution | Sterile water at 0.1 mg/mL |
| Shipping | Room temperature |
| Instructions | Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | VEGFA vascular endothelial growth factor A [<i>Equus caballus</i> (horse)] |
| Official Symbol | VEGFA |
| Synonyms | VEGFA; vascular endothelial growth factor A; VPF; VEGF-A; vascular permeability factor; vascular endothelial growth factor 164; |
| Gene ID | 100033839 |
| mRNA Refseq | NM_001081821 |

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UniProt ID Q9GKR0

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