# Active Recombinant Human VEGF165 Protein (165 aa)

**Cat. No.** VEGFA-144V **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human VEGF165 Protein (165 aa) without tag was expressed in P. pastoris. |
| **Species** | Human |
| **Source** | P.pastoris |
| **ProteinLength** | 165 |
| **Description** | Vascular Endothelial Growth Factor (VEGF) is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells, and promotes angiogenesis and vascular permeability. Expressed in vascularized tissues, Vascular Endothelial Growth Factor (VEGF) plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicates Vascular Endothelial Growth Factor (VEGF) in the induction of tumor metastasis and intra-ocular neovascular syndromes. Vascular Endothelial Growth Factor (VEGF) signals through the three receptors; fms-like tyrosine kinase (flt-1), KDR gene product (the murine homolog of KDR is the flk-1 gene product) and the flt4 gene product. |
| **Form** | Sterile Filtered White lyophilized (freeze-dried) powder. |
| **Bio-activity** | ED50 of 1-5 ng/mL, measured by the dose-dependent stimulation of the proliferation of HUVEC cells, corresponding to a specific activity of 2 × 10^5 to 1 × 10^6 units/mg. |
| **Molecular Mass** | 38.2kDa, observed by non-reducing SDS-PAGE |

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| **AA Sequence** | APMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPSCVPLMRC GGCCNDEGLECVPTEESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQ ENPCGPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR |
| **Endotoxin** | < 0.5 EU/μg, determined by LAL method. |
| **Purity** | > 95% as analyzed by reducing SDS-PAGE. |
| **Storage** | Lyophilized recombinant human Vascular Endothelial Growth Factor A165 (rhVEGF-A165) remains stable up to 12 months at -80 centigrade from date of receipt. Upon reconstitution, rhVEGF-A165 should be stable up to 4 week at 4 centigrade or up to 6 months at -20 centigrade. |
| **Storage Buffer** | Lyophilized after extensive dialysis against 25 mM HEPES and 150 mM NaCl, pH 7.0. |
| **Reconstitution** | Reconstituted in ddH2O at 100 μg/mL. |

## GENE INFORMATION

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| **Gene Name** | VEGFA vascular endothelial growth factor A [ Homo sapiens ] |
| **Official Symbol** | VEGFA |
| **Synonyms** | VEGFA; vascular endothelial growth factor A; vascular endothelial growth factor, VEGF; VEGF A; VPF; vascular permeability factor; VEGF; MVCD1; MGC70609; |
| **Gene ID** | 7422 |
| **mRNA Refseq** | NM_001025366 |
| **Protein Refseq** | NP_001020537 |

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| **MIM** | 192240 |
| **UniProt ID** | P15692 |

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