

Active Recombinant Human VEGF165 Protein (165 aa)

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

SPECIFICATION

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 GGCCNDEGLECVPTESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQ 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 ddH ₂ O at 100 μg/mL.

GENE INFORMATION

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
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UniProt ID	P15692
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