Active Recombinant Human VEGF165 Protein

Cat. No. VEGFA-161V **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VEGF165 Protein without tag was expressed in HEK 293.
Species	Human
Source	HEK293
Description	Vascular Endothelial Growth Factor 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, VEGF plays a prominent role in normal and pathological angiogenesis. Substantial evidence implicates VEGF in the induction of tumor metastasis and intra-ocular neovascular syndromes. VEGF signals through the three receptors; fms-like tyrosine kinase (flt-1), KDR gene product (the mouse 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 < 16 ng/mL, measured in a cell proliferation assay using HUVEC cells.
Molecular Mass	20~26 kDa, observed by reducing SDS-PAGE.
AA Sequence	APMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPSCVPLMRC GGCCNDEGLECVPTEESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQ ENPCGPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Human Vascular Endothelial Growth Factor 165 (VEGF-165) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Vascular Endothelial Growth Factor 165 (VEGF-165) should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS 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
MIM	192240
UniProt ID	P15692

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