

VEGFA

Recombinant Equine VEGF 165, Animal Free

Catalog No.	CRE051A-AF CRE051B-AF CRE051C-AF CRE051D-AF	Quantity:	5 µg 20 µg 1.0 mg 100 µg
Alternate Names:	Vascular endothelial growth factor A, VEGF-A, Vascular permeability factor, VPF		
Description:	Vascular Endothelial Growth Factor is a potent growth and angiogenic cytokine. It stimulates proliferation and survival of endothelial cells. VEGF-A is also a vasodilator and increases microvascular permeability via nitric oxide-dependent pathways, and was originally referred to as vascular permeability factor. There are multiple isoforms of VEGF-A that result from alternative splicing of mRNA from a single, 8-exon VEGFA gene, 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.		
Gene ID:	100033839		
UniProt ID:	F6XLT6		
Source:	<i>E. coli</i>		
	Manufactured without Animal-derived products, in an Animal Free facility.		
Molecular Weight:	19.3/38.6 kDa (166/332 aa), dimer		
Formulation:	Lyophilized from a sterile filtered 10 mM Sodium Phosphate, pH 7.5		
Purity:	≥ 95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1 EU/µg of protein by kinetic LAL analysis		
Biological Activity:	ED ₅₀ ≤ 10 ng/ml, determined by dose-dependent cell proliferation assay using human umbilical vein endothelial cells (HUVEC).		
Specific Activity:	1.0 × 10 ⁵ units/mg		
Amino Acid Sequence:	MAPMAEGEHK THEVVKFMDV YQRSYCRPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TAEFNITMQI MRIKPHQSQH IGEMSFLQHS KCECRPKKDK ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilution should be made in appropriate buffered solutions.		
Storage & Stability:	Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year. Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, freeze in working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

