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## Datasheet for ABIN1097784 **VEGF Protein (AA 27-191)**

### Overview

Quantity:	50 µg
Target:	VEGF
Protein Characteristics:	AA 27-191
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human VEGF-A/VEGF165
Sequence:	APMAEGGGQN HHEVVKFMDV YQRSYCHPIE TLVDIFQEYP DEIEYIFKPS CVPLMRCGGC CNDEGLECVP TEESNITMQI MRIKPHQGQH IGEMSFLQHN KCECRPKKDR ARQENPCGPC SERRKHLFVQ DPQTCKCSCK NTDSRCKARQ LELNERTCRC DKPRR
Characteristics:	Recombinant Human VEGF 165 (Vascular Endothelial Growth Factor Isoform 165) was produced in human cells that were transfected with an expression plasmid encoding Human VEGF165 (Ala27-Arg191).
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

### Target Details

Target:	VEGF
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## Target Details

Alternative Name: Vegf ([VEGF Products](#))

**Background:** Recombinant Human VEGF 165: Human Vascular endothelial growth factor, also known as VEGF-A and vascular permeability factor (VPF), belongs to the platelet-derived growth factor family of cysteine-knot growth factors. It is a potent activator in vasculogenesis and angiogenesis both physiologically and pathologically. VEGF-A has 8 differently spliced isoforms, of which VEGF165 is the most abundant one. VEGF165 is a disulfide-linked homodimer consisting of two glycosylated 165 amino acid polypeptide chains. VEGF stimulates the cellular response through binding to tyrosine kinase receptors VEGFR1 and VEGFR2 on the cell surface. It is widely accepted that VEGFR2 mediate almost all of the known cellular responses to VEGF while the function of VEGFR1 is less defined and is thought to modulate the VEGFR2 signaling. Alternative Names: Recombinant Human VEGF 165, Vascular Endothelial Growth Factor Isoform 165, VEGF165

**Molecular Weight:** 19.1 kDa

## Application Details

**Restrictions:** For Research Use only

## Handling

**Format:** Lyophilized

**Reconstitution:** It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Buffer:** Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

**Handling Advice:** Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

**Storage:** 4 °C/-20 °C/-80 °C

**Storage Comment:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Expiry Date:** 3 months