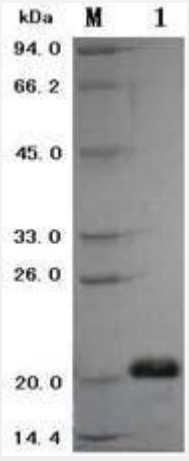
Recombinant Human Vascular Endothelial Growth Factor (rh-VEGF165)

Catalog No.	LT12011
Packing Details	100 ug
Physical Appearance	Freeze-dried powder
Mol. Wt.	20 kDa
Resources	Escherichia coli (E. coli)
Purity	≥95%
Endotoxin	<1.0 EU/μg protein
Storage Condition	-20°C
Storage Duration	3 years
EC50	Typically 2~5 ng/ml as determined by human umbilical vein endothelial cells-HUVECs)
Description	Vascular endothelial growth factor (VEGF), also known as vascular permeability factor (VPF), is a potent mediator of both angiogenesis and vasculogenesis in human. Through alternative splicing, the single human VEGF gene produces six forms of human VEGF mRNA, which encode VEGF proteins of 121, 145, 165, 183, 189, and 206 amino acids, respectively. The 165-amino acid isoform (VEGF165) is the major gene product found in human tissue. It is the most effective angiogenic factor in the VEGF family.



1:rh-VEGF165
M: Protein marker standard
Figure 1: Analysis of rh-VEGF165 by SDS-PAGE

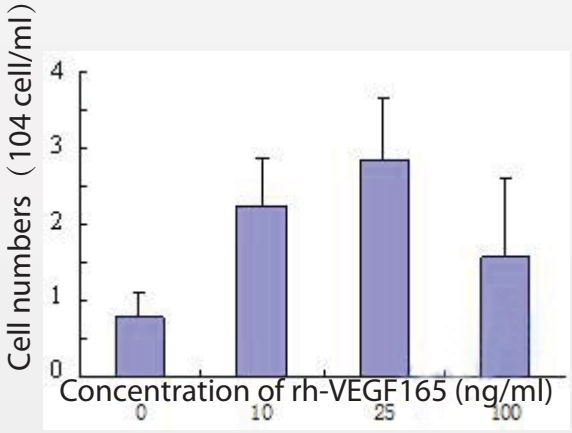


Figure 2: Proliferation of HUVECs examined by means of increased cell number in the presence of rh-VEGF165 for 96h

Notes

It is recommended that the product be reconstituted with sterile water into a final concentration of 50 µg/ml at room temperature. Store the reconstituted product in aliquots at -20°C. Avoid multiple freeze-thaw cycles and exposure to frequent changes in temperature.

The use of strong acids and bases, strong oxidants, and high concentrations of organic solvents should be avoided to prevent denaturation.

For research purposes only!