

Recombinant Human VEGF 165

Catalog Number: 124-VEGF



OrganRegen, INC.
Creating Solutions for Organoid Cultures

DESCRIPTION

Background

The VEGF superfamily has six core members: VEGF-A, VEGF-B, VEGF-C, VEGF-D, VEGF-E, and PlGF. VEGF-A, to which VEGF 165 belongs, is the most widely studied, physiologically crucial, and considered VEGF in the narrow sense. 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, 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 murine homolog of KDR is the flk-1 gene product) and the flt4 gene product. VEGF 165 stands as the most prominent and biologically active protein isoform within the VEGF-A family.

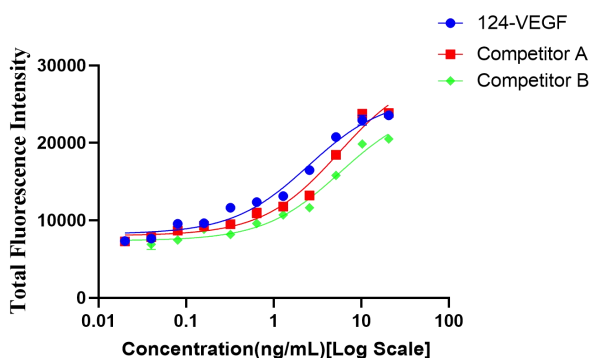
Name	Recombinant Human VEGF 165 (Ala27-Arg191)
Size	1 mg/vial
Source	Chinese Hamster Ovary cell line
Predicted molecular weight	19.1 kDa
Purity	Purity 95% by SDS-PAGE gel and HPLC analyses
Endotoxin	≤10 EU/mg by the LAL method
Form	Lyophilized powder
Activity	Measured in a cell proliferation assay using HUVEC human umbilicveinendothelial cells. The ED50 for this effect is 0.2-5 ng/mL
Formulation	Lyophilized from a 0.22 µm-filtered solution containing PBS, 5% mannitol and 0.01% Tween 80, pH 7.4

HANDLING AND STORAGE

Handling	Centrifuge vial prior to opening. Do not vortex after reconstitution		
Reconstitution	It is recommended to redissolve in sterile deionized water or PBS beffer containing 0.1% BSA		
Storage	Powder	-20°C to -80°C	3 years
	In solvent	-20°C to -80°C	6 months
		2°C to 8°C	7-10 days
Use a manual defrost freezer and avoid repeated freeze-thaw cycles			

BIOLOGICAL ACTIVITY

Proliferation Assay Human VEGF₁₆₅ using HUVEC Cells



Recombinant Human VEGF₁₆₅ (Cat. No. 124-VEGF) stimulates proliferation of HUVEC cells. 124-VEGF was higher than the other two international competing products

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CONTACT AND SUPPORT



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For research use only, not for use in diagnostic procedures. Certificate of authenticity (COAs) for all other products are available upon request. For questions, suggestions, and technical supports, please contact us at E-mail: info@biogenous.cn.