

# **Screening Libraries**

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TLVDIFQEYP

**Product** Data Sheet

TEESNITMQI

ARQENPCGPC

LELNERTCRC

KCECRPKKDR

YQRSYCHPIE

 $\mathsf{C}\,\mathsf{N}\,\mathsf{D}\,\mathsf{E}\,\mathsf{G}\,\mathsf{L}\,\mathsf{E}\,\mathsf{C}\,\mathsf{V}\,\mathsf{P}$ 

NTDSRCKARQ

IGEMSFLQHN

HHEVVKFMDV

CVPLMRCGGC

VEGF-AA; rHuVEGF165; VPF; Folliculostellate cell-derived growth factor; Glioma-derived

DPQTCKCSCK

The ED<sub>50</sub> is 1-5 ng/mL as measured by HUVEC cells, corresponding to a specific activity of  $2 \times 10^5$  -  $1 \times 10^6$  units/mg.

**Appearance** 

**Biological Activity** 

Cat. No.:

Species: Source:

Accession:

Molecular Weight:

**PROPERTIES** 

**AA Sequence** 

Gene ID:

Synonyms:

Lyophilized powder

APMAEGGGQN

DEIEYIFKPS

MRIKPHQGQH

SERRKHLFVQ

DKPRR

**VEGF165 Protein, Human (P.pastoris)** 

HY-P7110

Human

7422

P. pastoris

endothelial cell mitogen

P15692-4 (A27-R191)

**Formulation** 

Lyophilized after extensive dialysis against 25 mM HEPES and 150 mM NaCl, pH 7.0.

**Endotoxin Level** 

<0.5 EU/µg, determined by LAL method.

Approximately 38.2 kDa (Disulfide-linked homodimer)

Reconsititution

It is not recommended to reconstitute to a concentration less than 100  $\mu g/mL$  in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** 

Room temperature in continental US; may vary elsewhere.

### **DESCRIPTION**

Background

Vascular Endothelial Growth Factor (VEGF) has multiple isoforms, created by alternative splicing or proteolytic cleavage, and characterized by different receptor-binding and matrix-binding properties. These isoforms are known to give rise to a spectrum of angiogenesis patterns marked by differences in branching, which has functional implications for tissues. VEGF-A is a key member of the VEGF family of cytokines, along with VEGF-B, -C, -D, and PIGF. VEGF-A mediates angiogenesis, the expansion of an existing vascular bed by sprouting of new blood vessels. The vegfa gene is translated into a number of splice

REFERENCES  [1]. Vempati P, et al. Extracellular regulation	of VEGF: isoforms, proteolysis, and vascular patt	erning. Cytokine Growth Factor Rev. 2014 Feb;25	(1):1-19.
Caution:	Product has not been fully validated for me	edical applications. For research use only.	
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isoforms, the most notable in humans being VEGF121, VEGF165, and VEGF189  $^{[1]}$ .

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