

Screening Libraries

Pro

| ٠. | ے |
|----|---|
| è | Η |
| - | D |
| ÷ | - |
| - | ٦ |
| ū | n |
| | |
| | |
| | |

| æ |
|---|
| 5 |
| S |
| |
| |



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 ED₅₀ is 1-5 ng/mL as measured by HUVEC cells, corresponding to a specific activity of 2×10^5 - 1×10^6 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 ddH₂O. 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. Extracellula | ar regulation of VEGF: isoforms, proteolysis, and vascular patterning. Cytokine Growth Factor Rev. 2014 Feb;25(1):1-19. |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | Continue Double and have a little and former than the state of the sta |
| | Caution: Product has not been fully validated for medical applications. For research use only. Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com |
| | Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

isoforms, the most notable in humans being VEGF121, VEGF165, and VEGF189 $^{[1]}$.

Page 2 of 2 www.MedChemExpress.com