

Recombinant Human Vascular Endothelial Growth Factor 165 (HEK293-expressed)

Cat. No.:	HY-P7110A
Synonyms:	rHuVEGF165; VPF; Folliculostellate cell-derived growth factor; Glioma-derived endothelial cell mitogen
Species:	Human
Source:	HEK 293
Accession:	P15692
Gene ID:	7422
Molecular Weight:	20-26 kDa

PROPERTIES

AA Sequence	<p>A P M A E G G G Q N H H E V V K F M D V Y Q R S Y C H P I E T L V D I F Q E Y P</p> <p>D E I E Y I F K P S C V P L M R C G G C C N D E G L E C V P T E E S N I T M Q I</p> <p>M R I K P H Q G Q H I G E M S F L Q H N K C E C R P K K D R A R Q E N P C G P C</p> <p>S E R R K H L F V Q D P Q T C K C S C K N T D S R C K A R Q L E L N E R T C R C</p> <p>D K P R R</p>
Biological Activity	The ED ₅₀ is <5 ng/mL as measured by HUVEC cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	Reconstitute the lyophilized recombinant Human Vascular Endothelial Growth Factor 165 (HEK293-expressed) (rHuVEGF165) to 100 μg/mL using ddH ₂ O or diluted with PBS.
Storage & Stability	Lyophilized recombinant Human Vascular Endothelial Growth Factor 165 (HEK293-expressed) (rHuVEGF165) is stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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,
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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 PlGF. 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 isoforms, the most notable in humans being VEGF121, VEGF165, and VEGF189^[1].

REFERENCES

[1]. Vempati P, et al. Extracellular regulation of VEGF: isoforms, proteolysis, and vascular patterning. Cytokine Growth Factor Rev. 2014 Feb;25(1):1-19.

Caution: Product has not been fully validated for medical applications. For research use only.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura, Delhi – 110034 (INDIA). Ph: +91-11-42208000, 42208111, 42208222, Mobile: +91-9810521400, Fax: +91-11-42208444

Email: customerservice@lifetechindia.com Website: www.lifetechindia.com