

VEGF165 Protein, Human (165a.a, HEK293)

Cat. No.:	HY-P70458
Synonyms:	Vascular Endothelial Growth Factor Isoform 165; VEGF165
Species:	Human
Source:	HEK 293
Accession:	P15692-4 (A27-R191)
Gene ID:	7422
Molecular Weight:	18-22 kDa

PROPERTIES

AA Sequence	<pre> 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 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 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 K K S V R G K G K G Q K R R K K K S R Y K S W S V Y V G A R C C L M P W S L P G P H P C G P C S E R R </pre>
Biological Activity	Human VEGF-165 Antibody(10F9)-mFc can bind Human VEGF165 with an affinity constant of 0.004 nM.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	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	Within the vascular endothelial growth factor (VEGF) family of five subtypes, VEGF165 secreted by endothelial cells has been identified to be the most active and widely distributed factor that plays a vital role in courses of angiogenesis, vascularization and mesenchymal cell differentiation ^[2] .
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REFERENCES

[1]. Ono K, et al. Structural features in heparin that interact with VEGF165 and modulate its biological activity. *Glycobiology*. 1999;9(7):705-711.

[2]. Quan R, et al. VEGF165 induces differentiation of hair follicle stem cells into endothelial cells and plays a role in in vivo angiogenesis. *J Cell Mol Med*. 2017;21(8):1593-1604.

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

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