

VEGF164 Protein, Mouse (164a.a, P.pastoris)

Cat. No.:	HY-P70761
Synonyms:	VEGF-AA; Vascular endothelial growth factor A; Vascular permeability factor; VPF; VEGFA; VEGFA164; VEGF164
Species:	Mouse
Source:	P. pastoris
Accession:	Q00731-2 (A27-R190)
Gene ID:	22339
Molecular Weight:	18-22 kDa

PROPERTIES

AA Sequence	<p>A P T T E G E Q K S H E V I K F M D V Y Q R S Y C R P I E T L V D I F Q E Y P D</p> <p>E I E Y I F K P S C V P L M R C A G C C N D E A L E C V P T S E S N I T M Q I M</p> <p>R I K P H Q S Q H I G E M S F L Q H S R C E C R P K K D R T K P E N H C E P C S</p> <p>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 D</p> <p>K P R R</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 250 mM NaCl, pH 7.0.
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. 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	<p>VEGF-A is a key member of the VEGF family of cytokines, along with VEGF-B, -C, -D, and PGF. VEGF-A participates in angiogenesis, vasculogenesis, and endothelial cell growth, inducing endothelial cell proliferation, promoting cell migration, inhibiting cell apoptosis, and inducing vascular permeability. VEGF-A binds to the FLT1/VEGFR1, KDR/VEGFR2 and DEAR/FBXW7-AS1 receptors, heparan sulfate and heparin. VEGF-A also binds to NRP1 initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development. VEGF-A stimulates endothelial cell mitogenesis and cell migration. VEGF-A is also a vasodilator and increases microvascular permeability^{[1][2][3][4][5]}.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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