

## VEGF-DD Protein, Mouse (HEK293, His)

Cat. No.:	HY-P72430
Synonyms:	Vascular endothelial growth factor D; VEGF-D; FIGF
Species:	Mouse
Source:	HEK293
Accession:	P97946 (F98-S206)
Gene ID:	14205
Molecular Weight:	17-20 kDa

### PROPERTIES

AA Sequence	<p>F Y D T E T L K V I      D E E W Q R T Q C S      P R E T C V E V A S      E L G K T T N T F F</p> <p>K P P C V N V F R C      G G C C N E E G V M      C M N T S T S Y I S      K Q L F E I S V P L</p> <p>T S V P E L V P V K      I A N H T G C K C L      P T G P R H P Y S</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
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 <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	<p>VEGF-DD, a versatile growth factor, plays a pivotal role in angiogenesis, lymphangiogenesis, and endothelial cell growth by orchestrating processes such as proliferation, migration, and influencing blood vessel permeability. Its involvement spans critical phases, contributing to the formation of both venous and lymphatic vascular systems during embryogenesis, and maintaining the integrity of differentiated lymphatic endothelium in adults. Functionally, VEGF-DD binds to and activates the VEGFR-3 (Flt4) receptor, initiating essential signaling cascades for vascular development and homeostasis. Structurally, VEGF-DD exists as a homodimer, characterized by a non-covalent and antiparallel configuration, underscoring its intricate role in coordinating complex vascular phenomena.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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