

## VEGF-DD Protein, Rat (HEK293, Fc)

<b>Cat. No.:</b>	HY-P73475
<b>Synonyms:</b>	Vascular endothelial growth factor D; VEGF-D; FIGF
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	O35251 (F94-R210)
<b>Gene ID:</b>	360457
<b>Molecular Weight:</b>	Approximately 50 kDa

### PROPERTIES

<b>AA Sequence</b>	F A A T 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 K P P C V N    V F R C G G C C N E    E S V M C M N T S T    S Y I S K Q L F E I S V P L 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 I I R R
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized recombinant Rat VEGF-DD at 10 µg/mL (100 µL/well) can bind biotinylated Mouse VEGFR-3. The ED <sub>50</sub> for this effect is 312.9 ng/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	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).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	VEGF-DD, a growth factor with pivotal roles in angiogenesis, lymphangiogenesis, and endothelial cell dynamics, demonstrates the ability to stimulate cellular proliferation and migration, along with influencing blood vessel permeability. Its significance extends to the formation of both venous and lymphatic vascular systems during embryogenesis, as well as the maintenance of differentiated lymphatic endothelium in adults. Functionally, VEGF-DD binds to and activates the VEGFR-3 (Flt4) receptor, initiating crucial signaling pathways for vascular development and homeostasis. Structurally, VEGF-DD exists as a homodimer with a non-covalent and antiparallel configuration, emphasizing its intricate role in orchestrating
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complex vascular processes.

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

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