

# Recombinant Human VEGF-D/FIGF Protein

Catalog No.: RP01426 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	2277	O43915

### Tags

C-His

### Synonyms

VEGFD; FIGF; VEGF-D; vascular endothelial growth factor D;FIGF;VEGF-D

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
13.02 kDa	18-22 kDa

### Endotoxin

&lt; 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

Vascular endothelial growth factor D (VEGF-D), also known as C-fos induced growth factor (FIGF), belongs to the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family. FIGF protein is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. FIGF protein is secreted as a non-covalent homodimer in an antiparallel fashion. Human FIGF protein is expressed in adult lung, heart, muscle, and small intestine, and is most abundantly expressed in fetal lungs and skin. FIGF protein is structurally and functionally similar to VEGF-C. Therefore, FIGF protein binds and activates VEGFR-2 (Flk1) and VEGFR-3 (Flt4) receptors, and may particularly be involved in cancers, such as breast cancer, epithelial ovarian carcinoma and so on.

## Basic Information

### Description

Recombinant Human VEGF-D/FIGF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe93-Ser201) of human VEGF-D/FIGF (Accession #NP\_004460.1) fused with a 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human FIGF/VEGF-D at 1 μg/mL (100 μL/well) can bind Human VEGFR3 with a linear range of 1.953-100.773 ng/mL.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Contact

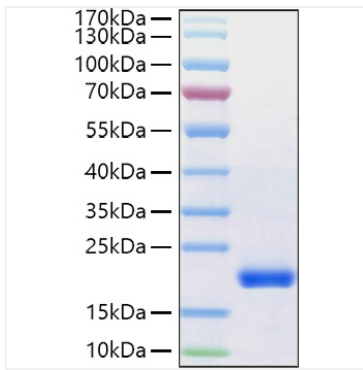
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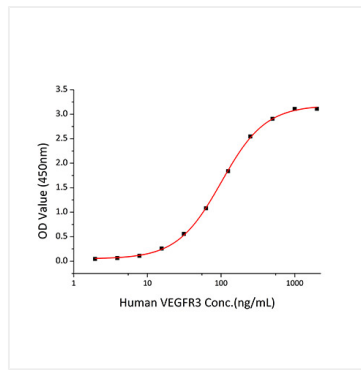
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## Validation Data

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Recombinant Human VEGF-D/FIGF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 18-22kDa.



Immobilized Human FIGF/VEGF-D at 1 $\mu$ g/mL (100  $\mu$ L/well) can bind Human VEGFR3 with a linear range of 1.953-100.773 ng/mL.