Human CellExp™ VEGF-D, Human recombinant

CATALOG NO: P1133-10 10 µg

ALTERNATE NAMES: FIGF, VEGFD

SOURCE: HEK 293 cells (Phe 93 – Ser 201)

PURITY: > 95% by SDS – PAGE

MOL. WEIGHT: This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 13 kDa. The protein migrates as 18-20 kDa on a SDS-PAGE gel under reducing (R) condition due to different glycosylation.

ENDOTOXIN LEVEL: < 1.0 EU per 1µg of protein (determined by LAL method)

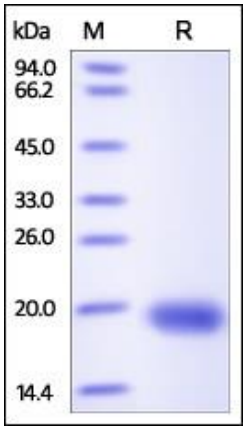
FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally Mannitol or Trehalose is added as a protectant before lyophilization.

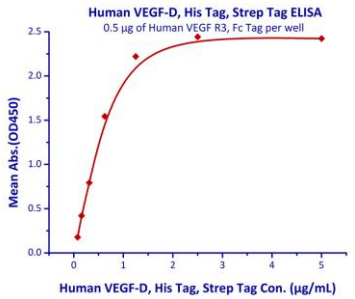
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 50 µg/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% (W/V) HSA or BSA) is recommended for further dilution and long term storage. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -80°C.

DESCRIPTION: Vascular endothelial growth factor D (VEGF-D) is also known as C-fos induced growth factor (FIGF), which belongs to the PDGF / VEGF growth factor family and is active in angiogenesis, lymphangiogenesis, and endothelial cell growth, stimulating their proliferation and migration and also has effects on the permeability of blood vessels. This secreted protein VEGF-D / FIGF undergoes a complex proteolytic maturation, generating multiple processed forms that bind and activate VEGFR-2 and VEGFR-3. The structure and function of this protein is similar to those of VEGFC. FIGF / VEGF-D is highly expressed in lung, heart, small intestine and fetal lung. FIGF / VEGF-D may function in the formation of the venous and lymphatic vascular systems during embryogenesis, and also in the maintenance of differentiated lymphatic endothelium in adults. Binds and activates VEGFR-2 (KDR / FLK1) and VEGFR-3 (FLT4) receptors.



Human VEGF-D, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue



Immobilized Human VEGF R3, Fc Tag at 5µg/mL (100 µL/well) can bind Human VEGF-D, His Tag, Strep Tag with a linear range of 0.08-0.6 µg/mL.

BIOACTIVITY: Measured by its binding ability in a functional ELISA. Immobilized Human VEGF R3, Fc Tag at 5µg/mL (100 µl/well) can bind Human VEGF-D, His Tag, Strep Tag with a linear range of 0.08-0.6 µg/ml.

RELATED PRODUCT:

- Human CellExp™ CCL6, mouse recombinant **(Cat. No. 7226-10, -50)**
- Human CellExp™ CD155, human recombinant **(Cat. No. 7462-10, -50)**
- Human CellExp™ CD160/BY55, human recombinant **(Cat. No. 7386-10, -50)**
- Human CellExp™ CD166/ ALCAM, human recombinant **(Cat. No. 7437-10, -50)**
- Human CellExp™ CD172A / SIRP, human recombinant (**Cat. No. 7506-10, -50)**
- Human CellExp™ CD33 / SIGLEC-3, human recombinant **(Cat. No. 7370-10, -50)**
- Human CellExp™ CD47, human recombinant **(Cat. No. 7385-10, -50)**
- Human CellExp™ CD55/DAF, human recombinant **(Cat. No. 7432-10, -50)**
- Human CellExp™ CD58 /LFA-3, human recombinant **(Cat. No. 7427-10, -50)**
- Human CellExp™ CD62E/E-Selectin, human recombinant **(Cat. No. 7434-20, -100)**
- Human CellExp™ CD71 / TFRC / TFR, human recombinant (**Cat. No. 7279-10, -50**
- Human CellExp™ CD273, human recombinant **(Cat. No. 7369-10, -50)**
- Human CellExp™ CD36, human recombinant **(Cat. No. 7371-10, -50)**
- Human CellExp™ CD87, human recombinant **(Cat. No. 7372-20, -100)**

FOR RESEARCH USE ONLY! Not to be used on humans.