

VEGFD Protein, Human, Recombinant

General Information

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| Synonyms: | VEGFD;c-fos induced growth factor;vascular endothelial growth factor D;FIGF |
| Protein Construction: | Phe89-Arg205 |
| Species: | Human |
| Expression Host: | CHO Cells |
| Accession: | O43915 |
| Molecular Weight: | 18-19 kDa (Reducing conditions) |

QC Testing

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| Biological Activity: | ED 50 < 1.0 µg/ml, measured in a cell proliferation assay using HUVEC cells. |
| Purity: | > 95% as determined by SDS-PAGE; > 95% as determined by HPLC |
| Endotoxin: | < 0.2 EU/µg of protein as determined by the LAL method. |
| Formulation: | Lyophilized from a 0.2 µm filtered solution in PBS. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Vascular Endothelial Growth Factor (VEGF)-D, also known as c-Fos-induced growth factor (FIGF), is a member of the PDGF/VEGF growth factor family. It is expressed highly in lung, heart and small intestine, and at lower levels in skeletal muscle, colon and pancreas. It binds to VEGFR-2 and VEGFR-3 receptors and activates downstream signals. VEGF-D is a growth factor active in angiogenesis, lymphangiogenesis and endothelial cell growth. It is involved in many developmental and physiological processes including the formation of venous and lymphatic vascular systems during embryogenesis and the maintenance of differentiated lymphatic endothelium in adults. In tumor pathology, it has been reported to play a role in restructuring of lymphatic channels and regional lymph

node metastasis.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481