

## Active Recombinant Human FIGF Protein, Met & His-tagged

**Cat. No.** FIGF-976H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant Human FIGF (Accession # O43915) Phe93-Ser201, fused with an N-terminal Met and C-terminal 6-His tag, was produced in Spodoptera frugiperda, Sf 21 (baculovirus)-derived.                                                                                                                                                                                                                      |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>               | Sf21 Cells                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>        | Phe93-Ser201                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Predicted N Terminal</b> | Met                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>                 | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.                                                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>         | Measured in a cell proliferation assay using HMVEC human microvascular endothelial cells. Marconcini, L. et al. (1999) Proc. Natl. Acad. Sci. USA 96:9671. The ED50 for this effect is typically 0.1-0.3 µg/mL. Measured by its binding ability in a functional ELISA. Immobilized recombinant human Flt-4 Fc Chimera at 5 µg/mL (100 µl/well) binds Recombinant Human VEGF-D with an apparent KD <15 nM. |
| <b>Molecular Mass</b>       | Recombinant Human FIGF, Met & His-tagged has a calculated MW of 13 kDa (monomer). In SDS-PAGE migrates as 17-20 kDa, reducing conditions.                                                                                                                                                                                                                                                                 |
| <b>Purity</b>               | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                                                                                                                                                                                                                               |

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|                |                                                                                                                                                                                               |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C). |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## GENE INFORMATION

|                            |                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | FIGF c-fos induced growth factor (vascular endothelial growth factor D) [ Homo sapiens ]                                               |
| <b>Official Symbol</b>     | FIGF                                                                                                                                   |
| <b>Synonyms</b>            | FIGF; c-fos induced growth factor (vascular endothelial growth factor D); VEGFD; vascular endothelial growth factor D; VEGF D; VEGF-D; |
| <b>Gene ID</b>             | 2277                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_004469                                                                                                                              |
| <b>Protein Refseq</b>      | NP_004460                                                                                                                              |
| <b>MIM</b>                 | 300091                                                                                                                                 |
| <b>UniProt ID</b>          | O43915                                                                                                                                 |
| <b>Chromosome Location</b> | Xp22.31                                                                                                                                |

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