

## Active Recombinant Human FGF4 Protein

Cat. No. FGF4-038H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The mature recombinant human FGF-4 protein consists of 153 amino acids (54-206) without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 54-206 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This gene was identified by its oncogenic transforming activity. This gene and FGF3, another oncogenic growth factor, are located closely on chromosome 11. Co-amplification of both genes was found in various kinds of human tumors. Studies on the mouse homolog suggested a function in bone morphogenesis and limb development through the sonic hedgehog (SHH) signaling pathway. |
| <b>Bio-activity</b>     | Measured in a cell proliferation assay using NR6R3T3 mouse fibroblast cells. The ED50 for this effect is 0.25-1.25 ng/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 19.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Product-Related</b>  | 54-206                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| Proteins         |                                                                                                                                                                                                                                                                                                                                             |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Endotoxin        | < 0.1 EU/μg of the protein as determined by the LAL method                                                                                                                                                                                                                                                                                  |
| Purity           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                            |
| Storage          | At -80 centigrade. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                       |
| Storage Buffer   | PBS                                                                                                                                                                                                                                                                                                                                         |
| GENE INFORMATION |                                                                                                                                                                                                                                                                                                                                             |
| Gene Name        | FGF4 fibroblast growth factor 4 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                    |
| Official Symbol  | FGF4                                                                                                                                                                                                                                                                                                                                        |
| Synonyms         | FGF4; fibroblast growth factor 4; HST; KFGF; FGF-4; HST-1; HSTF1; K-FGF; HBGF-4; HSTF-1; fibroblast growth factor 4; Names; heparin secretory transforming protein 1; heparin-binding growth factor 4; human stomach cancer, transforming factor from FGF-related oncogene; kaposi sarcoma oncogene; oncogene HST; transforming protein KS3 |
| Gene ID          | 2249                                                                                                                                                                                                                                                                                                                                        |
| mRNA Refseq      | NM_002007                                                                                                                                                                                                                                                                                                                                   |
| Protein Refseq   | NP_001998                                                                                                                                                                                                                                                                                                                                   |
| MIM              | 164980                                                                                                                                                                                                                                                                                                                                      |
| UniProt ID       | P08620                                                                                                                                                                                                                                                                                                                                      |

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