

## Active Recombinant Human FGF6 Protein

Cat. No. FGF6-040H    Lot. No. (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | The mature recombinant human FGF-6 protein consists of 168 amino acids (41-208) without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>            | 41-208 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 displayed oncogenic transforming activity when transfected into mammalian cells. The mouse homolog of this gene exhibits a restricted expression profile predominantly in the myogenic lineage, which suggested a role in muscle regeneration or differentiation. |
| <b>Bio-activity</b>             | Measured in a cell proliferation assay using NR6R3T3 mouse fibroblast cells. The ED50 for this effect is 0.1-0.3 ng/mL in the presence of 1 µg/mL of heparin.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>           | 18.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Product-Related Proteins</b> | 41-208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                       |                                                            |
|-----------------------|------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.1 EU/μg of the protein as determined by the LAL method |
| <b>Purity</b>         | > 95 % as determined by SDS-PAGE                           |
| <b>Storage</b>        | At -80 centigrade. Avoid repeated freeze-thaw cycles.      |
| <b>Storage Buffer</b> | PBS                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FGF6 fibroblast growth factor 6 [ Homo sapiens (human) ]                                                                                                                    |
| <b>Official Symbol</b> | FGF6                                                                                                                                                                        |
| <b>Synonyms</b>        | FGF6; fibroblast growth factor 6; HST2; HBGF-6; fibroblast growth factor 6; FGF-6; HST-2; HSTF-2; heparin secretory-transforming protein 2; heparin-binding growth factor 6 |
| <b>Gene ID</b>         | 2251                                                                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_020996                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_066276                                                                                                                                                                   |
| <b>MIM</b>             | 134921                                                                                                                                                                      |
| <b>UniProt ID</b>      | P10767                                                                                                                                                                      |

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