

## Active Recombinant Human FGF9 Protein (208 aa)

**Cat. No.** FGF9-406F    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Fibroblast Growth Factor-9(rhFGF-9) produced in E. coli is a single non-glycosylated polypeptide chain containing 208 amino acids. A fully biologically active molecule, rhFGF-9 has a molecular mass of 23.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 208                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Fibroblast Growth Factor-9 (FGF-9) is a heparin binding growth factor that belongs to 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. FGF-9 was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. In nervous system, this protein is produced mainly by neurons and may be important for glial cell development. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Bio-activity</b>     | ED50 < 2.0 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of $>5.0 \times 10^5$ units/mg.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 23.4 kDa, observed by reducing SDS-PAGE.                                                                                                                                                                                                                 |
| <b>AA Sequence</b>    | MAPLGGEVGNVFGVQDAVPFGNVPVLPVDSPVLLSDHLGQSEAGGLPRGPAVTDLD<br>HLKGILRRRQLYCRTGFHLEIFPNGTIQGTRKDHSRFGILEFISIAVGLVSIRGVDSGLY<br>LGMNEKGELYGSEKLTQECVFREQFEENWYNTYSSNLYKHVDTGRRYYVALNKDG<br>TPREGTRTKRHQKFTHFLPRPVD PDKVPELYKDILSQS                           |
| <b>Endotoxin</b>      | < 0.2 EU/μg, determined by LAL method.                                                                                                                                                                                                                   |
| <b>Purity</b>         | > 95% by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                                     |
| <b>Storage</b>        | Lyophilized recombinant Human Fibroblast Growth Factor-9(rhFGF-9) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhFGF-9 should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade. |
| <b>Storage Buffer</b> | Lyophilized after extensive dialysis against PBS.                                                                                                                                                                                                        |
| <b>Reconstitution</b> | Reconstituted in ddH <sub>2</sub> O at 100 μg/mL.                                                                                                                                                                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                                  |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FGF9 fibroblast growth factor 9 (glia-activating factor) [ Homo sapiens ]                                                                                                        |
| <b>Official Symbol</b> | FGF9                                                                                                                                                                             |
| <b>Synonyms</b>        | FGF9; fibroblast growth factor 9 (glia-activating factor); fibroblast growth factor 9; FGF-9; HBGF-9; heparin-binding growth factor 9; GAF; SYNS3; HBFG-9; MGC119914; MGC119915; |
| <b>Gene ID</b>         | 2254                                                                                                                                                                             |

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|-----------------------|-----------|
| <b>mRNA Refseq</b>    | NM_002010 |
| <b>Protein Refseq</b> | NP_002001 |
| <b>MIM</b>            | 600921    |
| <b>UniProt ID</b>     | P31371    |

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