

**Recombinant Human Fibroblast Growth Factor-9  
(rhFGF-9)  
Catalog Number: 104-09**

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| <b>Description</b>         | Fibroblast Growth Factor 9 (FGF-9) is one of the 23 known members of the FGF family. All FGF family members are heparin binding growth factors with a core 120 amino acid FGF domain that allows for a common tertiary structure. FGF-9 targets glial cells, astrocytes cells and other cells that express the FGF receptor 1c, 2c, 3b, 3c, and 4. |
| <b>Synonyms</b>            | Glia-activating factor (GAF), HBGF-9, SYNS3  |
| <b>AA Sequence</b>         | APLGEVGNFYF GVQDAVPFGN VPVLPVDSPV LLSDHLGQSE AGGLPRGPAV<br>TLDHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA<br>VGLVSIRGVD SGLYLG MNEK GELYGSEKLT QECVFREQFE ENWYNTYSSN<br>LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY<br>KDILSQS   |
| <b>Source</b>              | <i>Escherichia coli</i>  |
| <b>Molecular Weight</b>    | Approximately 23.4 kDa, a single non-glycosylated polypeptide chain containing 207 amino acids.  |
| <b>Purity</b>              | >95% by SDS-PAGE and HPLC analyses.  |
| <b>Biological Activity</b> | Fully biologically active. The ED <sub>50</sub> is ≤ 0.5 ng/ml, corresponding to a specific activity of ≥ 2 x 10 <sup>6</sup> units/mg, as determined by proliferation of BaF3 cells expressing FGF receptors.   |
| <b>Physical Appearance</b> | White lyophilized powder.  |
| <b>Formulation</b>         | Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.  |
| <b>Endotoxin</b>           | < 1EU/µg of growth factor as determined by LAL method.   |
| <b>Reconstitution</b>      | Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.   |
| <b>Storage</b>             | Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.   |
| <b>Usage</b>               | This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.  |