

## Fibroblast Growth Factor-basic Active Protein | mFGF 2 active protein

Recombinant Mouse Fibroblast Growth Factor-basic

CATALOG #  
**AAA38184**

HOST  
**E Coli**

### PRODUCT SYNONYMS

Fibroblast Growth Factor-basic; Recombinant Mouse Fibroblast Growth Factor-basic; FGF 2 Mouse; Fibroblast Growth Factor-Basic Mouse Recombinant; HBGH-2; HBGF-2; Prostatopin; FGF-2; FGB-b; mFGF 2 active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification     | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                                                    |
| Form/Format             | FGF-b was lyophilized from 5mM Na <sub>2</sub> PO <sub>4</sub> , pH7.5 and 50mM NaCl.<br>Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                         |
| Sequence                | MPALPEDGGA AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH VKLQLQAEER GVVSIGKVCA<br>NRYLAMKEDG RLLASKCVTE ECFFFERLES NNYNTYRSRK YSSWYVALKR TGQYKLGSKT GPGQKAILFL<br>PMSAKS                                                                                                                                                                                                                     |
| Sequence Length         | 154                                                                                                                                                                                                                                                                                                                                                                                        |
| Solubility              | It is recommended to reconstitute the lyophilized Fibroblast Growth Factor b in sterile 18M-cm H <sub>2</sub> O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                     |
| Protein Content         | Protein quantitation was carried out by two independent methods1. UV spectroscopy at 280 nm using the absorbency value of 0.885 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of FGF2 as a Reference Standard. |
| Biological Activity     | The activity as calculated by the dose-dependant proliferation of BALB/3T3 cells was found to be 0.1-0.16ng/ml.                                                                                                                                                                                                                                                                            |
| Preparation and Storage | Lyophilized Fibroblast Growth Factor-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution FGF-basic should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.          |

### ADDITIONAL INFORMATION

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| Related Product Information for mFGF 2 active protein | <p><b>Description:</b> Fibroblast Growth Factor-basic Mouse Recombinant (FGF-2) produced in E Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16.3kDa. The FGF-2 is purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> FGF-basic is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from AUG and non-AUG (CUG) initiation codons resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.The heparin-binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro. there are differences in the tissue distribution and concentration of these 2 growth factors.</p> |
| Product Categories/Family for mFGF 2 active protein   | Cytokines and Growth Factors; Growth Factors; Fibroblast Growth Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 7106315                                                                                             |
| NCBI GeneID                      | 14173                                                                                               |
| NCBI Accession #                 | NP_032032.1                                                                                         |
| NCBI GenBank Nucleotide #        | NM_008006.2                                                                                         |
| UniProt Accession #              | P15655                                                                                              |
| Molecular Weight                 | 17,153 Da                                                                                           |
| NCBI Official Full Name          | fibroblast growth factor 2                                                                          |
| NCBI Official Synonym Full Names | fibroblast growth factor 2                                                                          |
| NCBI Official Symbol             | Fgf2                                                                                                |
| NCBI Official Synonym Symbols    | Fgfb; bFGF; Fgf-2                                                                                   |
| NCBI Protein Information         | fibroblast growth factor 2; HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2 |
| UniProt Protein Name             | Fibroblast growth factor 2                                                                          |
| UniProt Gene Name                | <b>Fgf2</b>                                                                                         |
| UniProt Synonym Gene Names       | Fgf-2; FGF-2; bFGF; HBGF-2                                                                          |
| UniProt Entry Name               | FGF2_MOUSE                                                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-mfgf-2-active-protein/fibroblast-growth-factor-basic/38184>