

# Technical Data Sheet

## **Flogen<sup>®</sup> Recombinant Rat Fibroblast Growth Factor-basic (rRtbFGF)**

|                             |   |
|-----------------------------|---|
| <b>Catalog Number:</b>      | PGR0144-002   |
| <b>Source:</b>              | <i>Escherichia coli</i> .   |
| <b>Molecular Weight:</b>    | Approximately 16.3 kDa, a single non-glycosylated polypeptide chain containing 145 amino acids.   |
| <b>Quantity:</b>            | 10µg/50µg/1mg   |
| <b>AA Sequence:</b>         | PALPEDGGGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD<br>GVREKSDPHV KLQLQAEERG VVSIKGVCAN<br>RYLAMKEDGR LLASKCVTEE CFFFERLESN NYNTYRSRKY<br>SSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS  |
| <b>Purity:</b>              | >98% by SDS-PAGE and HPLC analyses.   |
| <b>Biological Activity:</b> | Fully biologically active when compared to standard. The ED <sub>50</sub> determined by a cell proliferation assay using murine NR6R/3T3 cells is less than 0.2 ng/ml, corresponding to a specific activity of > 5.0 × 10 <sup>6</sup> IU/mg.   |
| <b>Appearance:</b>          | Sterile Filtered White lyophilized (freeze-dried) powder.   |
| <b>Formulation:</b>         | Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4.  |
| <b>Endotoxin:</b>           | Less than 1EU/µg of rRtbFGF as determined by LAL method.  |
| <b>Reconstitution:</b>      | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions. |
| <b>Storage:</b>             | This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. <b>Avoid repeated freeze/thaw cycles.</b>                |
| <b>Usage:</b>               | This material is for research, laboratory or further evaluation purposes.<br><b>NOT FOR HUMAN USE.</b>  |

### ***Rat Fibroblast Growth Factor-basic***

Fibroblast Growth Factor-basic (bFGF) is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-basic is a non-glycosylated heparin binding growth factor that is expressed in the brain, pituitary, kidney, retina, bone, testis, adrenal gland liver, monocytes, epithelial cells and endothelial cells. FGF-basic signals through FGFR 1b, 1c, 2c, 3c and 4.