Fgf2
Recombinant Rat Fibroblast Growth Factor-basic

Catalog No.	CSI20131A	**Quantity:**	10 µg
	CSI20131B		50 µg
	CSI20131C		1.0 mg

Alternate Names: HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2,Fgf-2, bFGF

Description: 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.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Gene ID: 54250

Source: *E. coli*

Molecular Weight: Approximately 16.3 kDa, a single non-glycosylated polypeptide chain containing 145 amino acids.

Formulation: Lyophilized from a 0.2µm filtered solution in PBS, pH 7.4.

Purity: >98% by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1EU/µg of rRtbFGF as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} determined by a cell proliferation assay using murine NR6R/3T3 cells is less than 0.2 ng/ml.

Specific Activity: $\geq 5 \times 10^6$ IU/mg.

Amino Acid Sequence: PALPEDGGGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHV KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTEE CFFFERLESN NYNTYRSRKYSSWYVALKRT
GQYKLGSKTG PGQKAILFLP MSAKS

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions. **Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.**

Storage & Stability: This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

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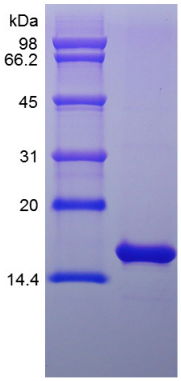
SDS-PAGE



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