

## Certificate of Analysis

### Recombinant Human FGF-basic

**Catalog#** 100-18B

**Lot #** 1207CY08

**Expiration Date:** January 2013

**Source:** *E.coli*

**Sequence:** AAGSITTLPA LPEDGGSGAF PPGHFKDPKR  
LYCKNGGFFL RIHPDGRVDG VREKSDPHIK LQLQAEERG  
VSIKGVCANR YLAMKEDGRL LASKCVTDEC FFFERLESNN  
YNTYRSRKYT SWYVALKRTG QYKLGSKTGP GQKAILFLPM  
SAKS

**Synonyms:** Fibroblast Growth Factor-basic, FGF-2,  
HBGF-2, Prostatropin

**Description:** FGF-basic 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. Recombinant human FGF-basic is a 17.2 kDa protein consisting of 154 amino acid residues.

**Purity:**  $\geq 95\%$  by SDS-PAGE gel and HPLC analyses.

**Endotoxin:** Endotoxin level is  $< 0.1$  ng / $\mu$ g of FGF-basic ( $< 1$  EU/ $\mu$ g).

**Formulation:** Sterile filtered through a 0.2 micron filter. Lyophilized from 5 mM Tris, pH 7.6 + 150 mM NaCl.

**Reconstitution:** Centrifuge the vial prior to opening. Reconstitute in 5mM Tris, pH 7.6, to a concentration of 0.1-1.0 mg/ml. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

**Storage/Stability:** The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 6 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

**Biological activity:** Determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors. The expected ED<sub>50</sub> is  $\leq 0.5$  ng/ml corresponding to a specific activity of  $\geq 2 \times 10^6$  units/mg. **Assay #2:** Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED<sub>50</sub> is  $\leq 0.1$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^7$  units/mg.

For a list of references using this product please visit our website at [www.peprotech.com](http://www.peprotech.com)

**Country of Origin:** USA

  
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QC Manager

**Usage:** For Research Use Only. Not for use in diagnostic or therapeutic procedures.