

TECHNICAL DATA SHEET

# Recombinant Human FGF-basic (146 a.a.) (Carrier-free)

Catalog Number: 21-8986

**RPx-Pro™ Recombinant Protein**  
PRODUCT INFORMATION

**CONTENTS**

Recombinant Human FGF-basic (146 a.a.) (Carrier-free)

**DESCRIPTION**

The Fibroblast Growth Factors (FGFs) are a large family of proteins that play a key role in many aspects of development and differentiation of a variety of tissues. FGF-basic is expressed in most types of tissue and plays a role in normal development and wound healing as well as neoplastic transformation. The functional activities of FGF-basic are mediated by receptor tyrosine kinases and modulated by heparin sulfate.

**MOLECULAR MASS**

Recombinant human FGF-basic (146 a.a.) is a 16.4 kDa protein consisting of 146 amino acid residues.

**AMINO ACID SEQUENCE**

PALPEDGGSG AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH IKLQLQAEER GVVSIKGVCA NRYLAMKEDG  
RLASKCVTD ECFFFERLES NNYNTYRSRK YTSWYVALKR TGQYKLGSKT GPGQKAILFL PMSAKS

**SOURCE**

E. coli

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE

**ENDOTOXIN LEVEL**

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

Cow, Dog, Frog, Hamster, Monkey, Mouse, Pig, Rabbit, Rat, Sheep, Human + Mouse, Rat + Chicken, Human, Horse, Bacteria, Trout, Chicken, Human + Rat, Leech, N/A, Human + Virus

**BIOACTIVITY**

The ED<sub>50</sub> was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 0.05 ng/ml, corresponding to a specific activity of ≥ 2 x 10<sup>7</sup> units/mg.

**RESEARCH AREAS**

Angiogenesis/Cardiovascular; Cancer; Cell Culture; FGF Superfamily; Inflammation; Neurobiology; Wound Healing; Proliferation; Stem Cells & Differentiation

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

Gospodarowicz D, Neufeld G and Schweigerer L. 1987. J Cell Physiol Suppl. 5: 15-26. Thomas KA. 1987. FASEB J. 1(6): 434-440. Klagsbrun M. 1992. Semin Cancer Biol. 3(2): 81-87. Coutts JC and Gallagher JT. 1995. Immunol Cell Biol. 73(6): 584-589. Schonherr E and Hausser HJ. 2000. Dev Immunol. 7 (2-4): 89-101.

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