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 RLLASKCVTD ECFFFERLES NNYNTYRSRK YTSWYVALKR TGQYKLGSKT GPGQKAILFL PMSAKS

SOURCE	APPLICATIONS	PURITY	STORAGE
E. coli	Bioassay	98 %	-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_{50} was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 0.05 ng/ml, corresponding to a specific activity of ≥ 2×10^7 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.