

TECHNICAL DATA SHEET

Recombinant Human FGF-basic (154 a.a.) (Carrier-Free)

Catalog Number: 21-9016

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human FGF-basic (154 a.a.) (Carrier-Free)

DESCRIPTION

FGF-basic is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation.

MOLECULAR MASS

Recombinant Human FGF-basic is a 17.2 kDa protein consisting of 154 amino acid residues.

AMINO ACID SEQUENCE

AAGSITLTP ALPEDGGSGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHI KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTDE CFFFERLESN NYNTYRSRKY TSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS

SOURCE

E.coli

APPLICATIONS

Bioassay

PURITY

95 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

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

AUTHENTICITY

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

CROSS REACTIVITY

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

BIOACTIVITY

Assay #1: The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is ≤ 0.5 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^6$ units/mg. Synonyms: Fibroblast Growth Factor-basic, FGF-2, HBGF-2, Prostatropin

Assay #2: The ED50 was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 0.1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg.

RESEARCH AREAS

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

RECONSTITUTION

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

REFERENCES

Mohan, S. High glucose-induced IKK-Hsp-90 interaction contributes to endothelial dysfunction. 2009. American Journal of Physiology. Cell Physiology; 296(1):C182-92. Xin, X. Shifted Transversal Design smart-pooling for high coverage interactome mapping. 2009. Genome Research.; 19(7):1262-9. Rensing, K. L. Could recombinant insulin compounds contribute to adenocarcinoma progression by stimulating local angiogenesis? 2010. Diabetologia; 53(5):966-70.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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