

TECHNICAL DATA SHEET

Recombinant Mouse FGF-basic (Carrier-free)

Catalog Number: 21-7049

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse FGF-basic (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 murine FGF-basic is a 16.3 kDa protein consisting of 145 amino acid residues.

AMINO ACID SEQUENCE

PALPEDGGAA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHV KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTEE CFFFERLESN NYNTYRSRKY SSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

95 %

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

Rabbit

BIOACTIVITY

Assay #1: The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is ≤ 0.1 ng/ml corresponding to a specific activity of ≥ 1 x 10⁷ units/mg. **Assay #2:** The ED₅₀ was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 1.0 ng/ml, corresponding to a specific activity of ≥ 1 x 10⁶ 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.

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.

For Research Use Only.

Not for use in diagnostic or therapeutic procedures. Not for resale. Not for distribution without written consent. Tonbo Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Tonbo Biosciences, Tonbo Biosciences Logo and all other trademarks are the property of Tonbo Biotechnologies Corporation. © 2013 Tonbo Biosciences.