

**TECHNICAL DATA SHEET**

**Recombinant Mouse FGF-acidic (Carrier-Free)**

Catalog Number: 21-9208

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

**CONTENTS**

Recombinant Mouse FGF-acidic (Carrier-Free)

**DESCRIPTION**

FGF-acidic 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. FGF-acidic is a non-glycosylated heparin binding growth factor that is expressed in the brain, kidney, retina, smooth muscle cells, bone matrix, osteoblasts, astrocytes and endothelial cells. FGF-acidic has the ability to signal through all the FGF receptors.

**MOLECULAR MASS**

Recombinant Mouse FGF-acidic is a 15.9 kDa protein consisting of 141 amino acid residues.

**AMINO ACID SEQUENCE**

MFNLPLGNYK KPKLLYCSNG GHFLRLPDG TVDGTRDRSD QHIQLQLSAE SAGEVYIKGT ETGQYLAMDT EGLLYGSQTP NEECLFLERL EENHYNTYTS  
 KKHAENWVFLV GLKKNQSKR GPRTHYGQKA ILFLPLPVSS D

**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**

Human, Mouse

**BIOACTIVITY**

Assay #1: The ED50 as determined by the dose-dependent stimulation of thymidine uptake by 3T3 cells in the presence of heparin is ≤ 0.5 ng/ml corresponding to a specific activity of ≥ 2 x 10<sup>6</sup> units/mg. Assay #2: The ED50 was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 0.2 ng/ml in the presence of 10 ug/ml heparin, corresponding to a specific activity of ≥ 5 x 10<sup>6</sup> units/mg.

**RESEARCH AREAS**

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

**RECONSTITUTION**

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

**REFERENCES**

Alves, M.M. Mutations in SCG10 are not involved in Hirschsprung disease. 2010. PLoS ONE; 5(12):e15144. Zhao, M. FGF signaling facilitates postinjury recovery of mouse hematopoietic system. 2012. Blood; 120(9):1831-42.

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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