

TECHNICAL DATA SHEET

Recombinant Human FGF-acidic (Carrier-free)

Catalog Number: 21-7048

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human FGF-acidic (Carrier-free)

DESCRIPTION

FGF-acidic is a member of the Fibroblast Growth Factor (FGF) family of proteins that play a central role in embryonic development, cell growth and cell differentiation.

MOLECULAR MASS

Recombinant human FGF-acidic is a 16.0 kDa protein consisting of 141 amino acid residues.

AMINO ACID SEQUENCE

MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTDRSD QHIQLQLSAE SVGEVYIKST ETGQYLAMDT DGLLYGSQTP
NEECLFLERL EENHYNTYIS KKHAEKNWFV GLKKN GSCKR GPRTHYGQKA ILFLPLPVSS D

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

Cow, Mouse, Pig, Rat, Shark, Squid

BIOACTIVITY

Assay #1: The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is ≤ 10 ng/ml, corresponding to a specific activity of ≥ 1 x 10⁵ units/mg. **Assay #2:** The ED₅₀ was determined by a cell proliferation assay using Balb/c 3T3 cells is ≤ 0.5 ng/ml in the presence of 10 μg/ml heparin, corresponding to a specific activity of ≥ 1 x 10⁵ units/mg.

RESEARCH AREAS

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

RECONSTITUTION

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

REFERENCES

Lin YZ, Yao SY, Hawiger J. 1996. J Biol Chem. 271(10): 5305-5308. Presta M, Dell'Era P, Mitola S, Moroni E, Ronca R, Rusnati M. 2005. Cytokine Growth Factor Rev. 16(2): 159-178.

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