TECHNICAL DATA SHEET

Recombinant Human FGF-17 (Carrier-Free)

Catalog Number: 21-9028

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human FGF-17 (Carrier-Free)

DESCRIPTION

FGF-17 is a heparin binding growth factor that is a member 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-17 signals induction and patterning of embryonic brain.

MOLECULAR MASS

Recombinant Human FGF-17 is a 22.7 kDa protein consisting of 195 amino acid residues.

AMINO ACID SEQUENCE

MTQGENHPSP NFNQYVRDQG AMTDQLSRRQ IREYQLYSRT SGKHVQVTGR RISATAEDGN KFAKLIVETD TFGSRVRIKG AESEKYICMN KRGKLIGKPS GKSKDCVFTE IVLENNYTAF QNARHEGWFM AFTRQGRPRQ ASRSRQNQRE AHFIKRLYQG QLPFPNHAEK QKQFEFVGSA PTRRTKRTRR PQPLT

SOURCE	APPLICATIONS	PURITY	STORAGE
E.coli	Bioassay	95 %	-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

Mouse

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 ≥ 2 x 106 units/mg. Assay #2: The ED50 was determined by a cell proliferation assay using balb/c 3T3 cells is ≤ 10.0 ng/ml, corresponding to a specific activity of ≥ 1 x 105 units/mg.

RESEARCH AREAS

Proliferation, Stem Cells & Differentiation, Angiogenesis/Cardiovascular, FGF Superfamily

RECONSTITUTION

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

REFERENCES

Zhang, X. Receptor specificity of the fibroblast growth factor family. The complete mammalian FGF family. 2006. The Journal of Biological Chemistry; 281 (23):15694-700. Steinberg, F. The FGFRL1 receptor is shed from cell membranes, binds fibroblast growth factors (FGFs), and antagonizes FGF signaling in Xenopus embryos. 2010. The Journal of Biological Chemistry; 285(3):2193-202.