

TECHNICAL DATA SHEET

Recombinant Human FGF-19 (Carrier-Free)

Catalog Number: 21-9031

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human FGF-19 (Carrier-Free)

DESCRIPTION

The FGF family plays central roles during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-19, a member of the FGF family, is a high-affinity heparin-dependent ligand for FGFR4. FGF-19 is expressed during brain development and embryogenesis.

MOLECULAR MASS

Recombinant Human FGF-19 is a 21.8 kDa protein containing 195 amino acid residues.

AMINO ACID SEQUENCE

MRPLAFSDAG PHVHYGWGDP IRLRHLYTSG PHGLSSCFLR IRADGVVDCA RGQSAHSLE IKAVALRTVA IKGVHSVRYL CMGADGKMQG LLQYSEEDCA FEEIIRPDGY NVYRSEKHLR PVSLSSAKQR QLYKNRGFLP LSHFLPMLPM VPEEPEDLRG HLESDFMSSP LETDSMDPFG LVTGLEAVRS PSFEK

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

Hamster, Mouse

BIOACTIVITY

Determined by a cell proliferation assay using balb/c 3T3 cells. The expected ED50 for this effect is 100-150 ng/ml.

RESEARCH AREAS

Proliferation, Stem Cells & Differentiation, Angiogenesis/Cardiovascular, FGF Superfamily, Bones, Skeletal, Cartilage

RECONSTITUTION

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

REFERENCES

Steinberg, F. The FGFR1 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. Tomiyama, K. Relevant use of Klotho in FGF19 subfamily signaling system in vivo. 2010. Proceedings of the National Academy of Sciences of the USA; 107(4):1666-71.

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