

TECHNICAL DATA SHEET

Recombinant Human FGF-21 (Carrier-free)

Catalog Number: 21-7055

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human FGF-21 (Carrier-free)

DESCRIPTION

FGF-21 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. FGF-21 is expressed in the liver and is a potent activator of glucose uptake by adipocytes.

MOLECULAR MASS

Recombinant human FGF-21 is a 19.5 kDa protein containing 182 amino acid residues.

AMINO ACID SEQUENCE

MHPIPDSSPL LQFGGQVRQR YLYTDDAQQT EAHLEIREDG TVGGAADQSP ESSLQLKALK PGVIQILGVK TSRFLCQRPD
GALYGLSLHFD PEACSFRELL LEDGYNVYQS EAHGLPLHLP GNKSPHRDPA PRGPARFLPL PGLPPALPEP PGILAPQPPD
VGSSDPLSMV GPSQGRSPSY AS

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

90 %

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

BIOACTIVITY

FGF-21, in the absence of beta-Klotho, shows weak activity of thymidine uptake by BaF3 cells expressing FGF receptors.

RESEARCH AREAS

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

RECONSTITUTION

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

REFERENCES

Nishimura T, Nakatake Y, Konishi M, Itoh N. 2000. Biochim Biophys Acta. 1492(1): 203-206. Potthoff MJ, Inagaki T, Satapati S, Ding X, He T, Goetz R, Mohammadi M, Finck BN, Mangelsdorf DJ, Kliewer SA, Burgess SC. 2009. Proc Natl Acad Sci U S A. 106(26): 10853-10858. Bookout AL, de Groot MH, Owen BM, Lee S, Gautron L, Lawrence HL, Ding X, Elmquist JK, Takahashi JS, Mangelsdorf DJ, Kliewer SA. 2013. Nat Med. 19(9): 1147-1152.

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