

TECHNICAL DATA SHEET

Recombinant Human KGF (FGF-7) (Carrier-free)

Catalog Number: 21-8700

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human KGF (FGF-7) (Carrier-free)

DESCRIPTION

Keratinocyte Growth Factor (KGF/FGF-7) is a member of the FGF family and is secreted by cells of mesenchymal origin. KGF plays a role in kidney and lung development, angiogenesis, wound healing, and migration and differentiation of epithelial cells. Expression of KGF is upregulated in skin after injury. This growth factor signals through binding of a splice variant of the FGFR2 that is predominantly expressed on epithelial cells.

MOLECULAR MASS

Recombinant human KGF/FGF-7 is an 18.9 kDa protein consisting of 163 amino acid residues.

AMINO ACID SEQUENCE

CNDMTPEQMA TNVNCSSPER HTRSYDMEG GDIRVRLFC RTQWYLRIK RGKVKGTQEM KNNYNIMEIR TVAVGIVAIAK
GVESEFYLAM NKEGKLYAKK ECNEDCNFKE LILENHNTY ASAKWTHNGG EMFVALNQKG IPVRGKKTCK EQKTAHFLPM AIT

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

Mouse, Rat

BIOACTIVITY

The ED₅₀ as determined by the dose-dependent stimulation of thymidine uptake by KGF-responsive BaF3 cells is ≤ 10 ng/ml, corresponding to a specific activity of ≥ 1 x 10⁵ units/mg.

RESEARCH AREAS

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

RECONSTITUTION

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

REFERENCES

Finch PW and Rubin JS. 2004. Adv Cancer Res. 91: 69-136. Werner S, Smola H, Liao X, Longaker MT, Krieg T, Hofschneider PH and Williams LT. 1994. Science. 266(5186): 819-822. Yen TT, Thao DT and Thuoc TL. 2014. Protein Pept Lett. 21(3): 306-317. Belleudi F, Leone L, Nobili V, Raffa S, Franciscangeli F, Maggio M, Morrone S, Marchese C and Torrisi MR. 2007. Traffic. 8(12): 1854-1872.

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