

TECHNICAL DATA SHEET

Recombinant Human FGF-8 (Carrier-free)

Catalog Number: 21-7052

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human FGF-8 (Carrier-free)

DESCRIPTION

FGF-8 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-8 (FGF-8b) is a 22.5 kDa protein consisting of 194 amino acid residues.

AMINO ACID SEQUENCE

MQVTVQSSPN FTQHVREQLS VTDQLSRRLI RTYQLYSRTS GKHVQVLANK RINAMAEDGD PFAKLIVETD TFGSRVRVRG
AETGLYICMN KKGKLIAXSN GKGKDCVFTE IVLENNYTAL QNAKYEGWYM AFTRKGRPRK GSKTRQHQRE VHFMRKRLPRG
HHTTEQSLRF EFLNYPPFTR SLRGSQRTWA PEPR

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

Chicken, Mouse, Rabbit, Rat

BIOACTIVITY

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.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Bone, Skeletal, Cartilage; Cancer; FGF Superfamily; Proliferation; Stem Cells & Differentiation

RECONSTITUTION

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

REFERENCES

Gemel J, Gorry M, Ehrlich GD, MacArthur CA. 1996. Genomics. 35(1): 253-257. Falardeau J, Chung WC, Beenken A, Raivio T, Plummer L, Sidis Y, Jacobson-Dickman EE, Eliseenkova AV, Ma J, Dwyer A, Quinton R, Na S, Hall JE, Huot C, Alois N, Pearce SH, Cole LW, Hughes V, Mohammadi M, Tsai P, Pitteloud N. 2008. J Clin Invest. 118(8): 2822-2831.

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