

TECHNICAL DATA SHEET

# Recombinant Human FGF-9 (Carrier-free)

Catalog Number: 21-7053

## RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

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Recombinant Human FGF-9 (Carrier-free)

### DESCRIPTION

FGF-9 is a heparin binding member of the Fibroblast Growth Factor (FGF) family of proteins that play a central role in embryonic development, cell growth and cell differentiation. In the nervous system, this protein is produced mainly by neurons and may be important for glial cell development.

### MOLECULAR MASS

Recombinant human FGF-9 is a 23.2 kDa protein consisting of 206 amino acid residues.

### AMINO ACID SEQUENCE

PLGEVGNVYFG VQDAVPFGNV PVLVVDSPVL LSDHLGQSEA GGLPRGPAVT DLDHLKGILR RRQLYCRTGF HLEIFPNGTI  
QGTRKDHSRF GILEFISIAV GLVSIRGVDS GLYLG MNEKG ELYGSEKLTQ ECVFREQFEE NWYNTYSSNL YKHVDTGRRY  
YVALNKDGTGTP REGTRTKRHQ KFTHFLPRPV DPKVPELYK DILSQS

### 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

### BIOACTIVITY

The ED<sub>50</sub> 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 10<sup>6</sup> units/mg.

### RESEARCH AREAS

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

### RECONSTITUTION

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

### REFERENCES

Reuss B, von Bohlen und Halbach O. 2003. Cell Tissue Res. 313(2): 139-157. Behr B, Leucht P, Longaker MT, Quarto N. 2010. Proc Natl Acad Sci U S A. 107(26): 11853-11858.

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