

TECHNICAL DATA SHEET

## Recombinant Mouse FGF-9 (Carrier-Free)

Catalog Number: 21-9206

### RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

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Recombinant Mouse FGF-9 (Carrier-Free)

#### DESCRIPTION

FGF-9 is a heparin-binding growth factor that belongs to the FGF family. Proteins of this family play a central role during prenatal development, postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-9 targets glial cells, astrocytes cells and other cells that express the FGFR 1c, 2c, 3b, 3c, and 4.

#### MOLECULAR MASS

Recombinant Mouse FGF-9 is a 23.3 kDa protein containing 206 amino acid residues.

#### AMINO ACID SEQUENCE

PLGEVGSYFG VQDAVPFGNV PVLVDPSPVL LNDHLGQSEA GGLPRGPAVT DLDHLKGILR RRQLYCRTGF HLEIFPNGTI QGTRKDHSRF GILEFISIAV  
GLVSIRGVDS GLYLG MNEKG ELYGSEKLTQ ECVFREQFEE NWWYNTYSSNL YKHVDTGRRY YVALNKDGTGTP REGTRTKRHQ KFTHFLPRPV  
DPDKVPELYK DILSQS

#### 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

Mouse

#### 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 10<sup>6</sup> units/mg.

#### RESEARCH AREAS

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

#### RECONSTITUTION

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

#### REFERENCES

Chellaiah, A. Mapping Ligand Binding Domains in Chimeric Fibroblast Growth Factor Receptor Molecules. 1999. The Journal of Biological Chemistry; 274 (49):34785-34794. Santos-Ocampo, S. Expression and biological Activity of Mouse Fibroblast Growth Factor-9\*. 1996. The Journal of Biological Chemistry; 271(3):1726-1731.

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