Recombinant Mouse Fgf9 protein

Cat. No. Fgf9-669M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fgf9 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	207
Description	Fibroblast growth factor 9 (FGF-9) encoded by the FGF-9 gene is a member of the fibroblast growth factor (FGF) family. It plays an important role in the regulation of embryonic development, cell proliferation, cell differentiation and cell migration. In addition, this protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells and it is a heparin-binding protein. Furthermore, FGF-9 is a monomer and interacts with FGFR1, FGFR2, FGFR3 and FGFR4. Recombinant mouse FGF-9 is synthesized as a 208 a.a. precursor that contains a 3 a.a. signal sequence. Specifically, The mouse FGF-9 shares 99 % a.a. sequence identity with rat FGF-9.
Form	Lyophilized from a 0.2μm filtered concentrated solution in 20 mM Tris, 500 mM NaCl, pH 8.5.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0×10^6 IU/mg.

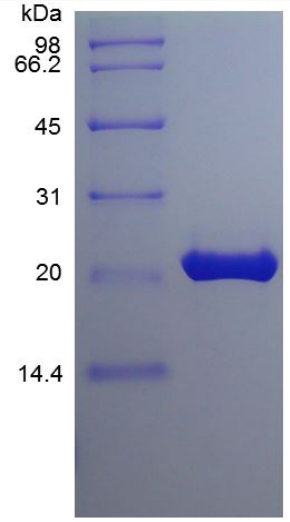
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Approximately 23.4 kDa, a single non-glycosylated polypeptide chain containing 207 amino acids.
AA Sequence	MPLGEVGSYFGVQDAVPFGNVPVLPVDSPVLLNDHLGQSEAGGLPRGPAVTDLDH LKGILRRRQLYCRTGFHLEIFPNGTIQGTRKDHSRFGILEFISIAVGLVSIRGVDSGLYL GMNEKGELYGSEKLTQECVFREQFEENWYNTYSSNLYKHVDTGRRYYVALNKDGT PREGTRTKRHQKFTHFLPRPVDPDKVPELYKDILSQS
Endotoxin	Less than 1 EU/μg of rMuFGF-9 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Fgf9
Official Symbol	Fgf9
Synonyms	FGF9; fibroblast growth factor 9; GAF; FGF-9; HBGF-9; elbow knee synostosis; glia activating factor; glia-activating factor; Eks;

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Gene ID	14180
mRNA Refseq	NM_013518
Protein Refseq	NP_038546
UniProt ID	P54130
SDS-PAGE of Fgf9-669M	

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