

Recombinant Mouse FGF-9

Information

Gene ID	14180
Accession #	P54130
Alternate Names	GAF, HBGF-9
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 23.4 kDa, a single non-glycosylated polypeptide chain containing 207 amino acids.
AA Sequence	MPLGEVGSYF GVQDAVPFGN VPVLPVDSPV LLNDHLGQSE AGGLPRGPAV TDLHLKGIL RRRQLYCRTG FHLEIFPNGT IQGTRKDHSR FGILEFISIA VGLVSIRGVD SGLYLG MNEK GELYGSEKLT QECVFREQFE ENWYNTYSSN LYKHVDTGRR YYVALNKDGT PREGTRTKRH QKFTHFLPRP VDPDKVPELY KDILSQS
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM Tris, 500 mM NaCl, pH 8.5.
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 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ 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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 µg	100 µg	500 µg
Recombinant Mouse FGF-9	10 µg	100 µg	500 µg

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Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuFGF-9 as determined by LAL method.

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.

Reference

1. Miyamoto MNaruo K, Seko C, et al. 1993. Mol Cell Biol. 13:4251-9.
2. Santos-Ocampo S, Colvin JS, Chellaiah A, et al. 1996. J Biol Chem. 271:1726-31.
3. Chellaiah A, Yuan W, Chellaiah M, et al. 1999. J Biol Chem. 274:34785-94.

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