Store at -20°C

Mouse FGF-9 Recombinant Protein

#74356

10 µg

Support: +1-978-867-2388 (U.S.)
www.cellsignal.com/support

Orders: 877-616-2355 (U.S.)
orders@cellsignal.com

Entrez-Gene ID #14180
UniProt ID #P54130

For Research Use Only. Not For Use In Diagnostic Procedures.

Background: Fibroblast growth factor 9 (FGF9) is a member of the larger FGF family of proteins that play key roles in development, cancer, and metabolism. Binding of FGF9 to its receptor requires interaction with heparin and induces receptor dimerization, subsequent transphosphorylation, and downstream activation of Erk, Akt, and PLCγ pathways (1). FGF9 is important for organ development and bone repair (2-4).

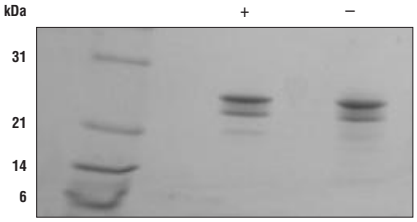
Molecular Weight: 23.4 kDa

Endotoxin: Endotoxin levels are ≤ 1 EU / 1 µg mFGF-9.

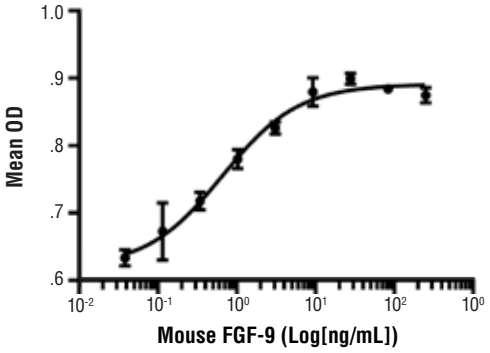
Purity: ≥ 95% purity was determined by SDS-PAGE.

Source/Purification: Recombinant mouse FGF-9 was expressed in *E. coli* and is supplied in a lyophilized form.

Bioactivity: The bioactivity of recombinant mFGF-9 was determined in an NR6R-3T3 cell proliferation assay. The ED_{50} of each lot is ≤ 10 ng/ml.



The purity of Mouse FGF-9 Recombinant Protein was determined by SDS-PAGE of 1 µg reduced (+) and non-reduced (-) recombinant mFGF-9 and staining with Coomassie Blue.



Serial dilutions of Mouse FGF-9 Recombinant Protein were added to NR6R-3T3 cells. Cell proliferation was measured and the linear portion of the curve was used to calculate the ED_{50}.

Storage: Mouse FGF-9 Recombinant Protein is supplied as lyophilized material that is very stable at -20°C. It is recommended to reconstitute with sterile water at a concentration of 0.1 mg/ml which can be further diluted in aqueous solutions as needed. Addition of a carrier protein (0.1% HSA or BSA) is recommended for long-term storage.

Background References:

(1) Itoh, N. and Ornitz, D.M. (2011) *J Biochem* 149, 121-30.

(2) Yin, Y. et al. (2011) *Development* 138, 3169-77.

(3) Barak, H. et al. (2012) *Dev Cell* 22, 1191-207.

(4) Behr, B. et al. (2010) *Proc Natl Acad Sci U S A* 107, 11853-8.

Thank you for your recent purchase. If you would like to provide a review visit cellsignal.com/comments.

Applications: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide **Species Cross-Reactivity:** **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.