

Store at
-20°C

Human FGF-9 Recombinant Protein



#54319

10 µg

Support: +1-978-867-2388 (U.S.)
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UniProt ID #P31371

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

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

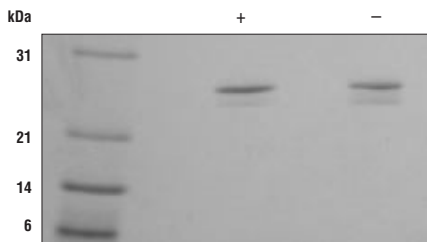
Molecular Weight: 23.4 kDa

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

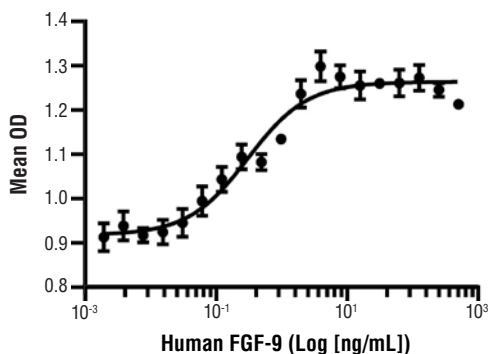
Purity: $\geq 95\%$ purity was determined by SDS-PAGE.

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

Bioactivity: The bioactivity of recombinant hFGF-9 was determined in an NR6R-3T3 cell proliferation assay. The ED₅₀ of each lot is ≤ 2 ng/ml.



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



Serial dilutions of Human 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 ED₅₀.

Storage: Human 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.

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