

# Human Fibroblast Growth Factor 9 (hFGF9)



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MW (kDa):	UniProt ID:	Entrez-Gene Id:
23	#P31371	2254
<b>Background</b>	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 FGF9 to its receptor requires interaction with heparin and induces receptor dimerization, subsequent transphosphorylation, and downstream activation of Erk, Akt, and PLC $\gamma$ pathways (1). FGF9 is important for organ development and bone repair (2-4).	
<b>Endotoxin</b>	Less than 0.01 ng endotoxin/1 $\mu$ g hFGF9.	
<b>Purity</b>	>95% as determined by SDS-PAGE of 6 $\mu$ g reduced (+) and nonreduced (-) recombinant hFGF9. All lots are greater than 95% pure.	
<b>Source / Purification</b>	Recombinant human FGF9 (hFGF9) Leu4-Ser208 (Accession #NP_31371) was expressed in <i>E. coli</i> at Cell Signaling Technology.	
<b>Bioactivity</b>	The bioactivity of hFGF9 was determined in an NIH/3T3 cell proliferation assay. The ED <sub>50</sub> of each lot is between 0.05-0.80 ng/ml.	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Itoh, N. and Ornitz, D.M. (2011) <i>J Biochem</i> 149, 121-30.</li> <li>2. Yin, Y. et al. (2011) <i>Development</i> 138, 3169-77.</li> <li>3. Barak, H. et al. (2012) <i>Dev Cell</i> 22, 1191-207.</li> <li>4. Behr, B. et al. (2010) <i>Proc Natl Acad Sci U S A</i> 107, 11853-8.</li> </ol>	

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