#5414

Mouse Basic Fibroblast Growth Factor (mFGF basic/FGF2)



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MW (kDa): 17	UniProt ID: #P15655	Entrez-Gene Id: 14173
Background		FGF basic (FGF2) is producted in both embryonic and adult cell types, and contributes to the pathogenesis of various diseases, including cancer and atherosclerosis (1). FGF basic is involved in developmental processes and regulates differentiation, proliferation, and migration (1-6). FGF basic is a critical factor for growing embryonic stem cells in culture without inducing differentiation. FGF basic has a high affinity for heparan sulfate (1,2) and binding is a step in the FGF basic activation of FGFR tyrosine kinase. There are four distinct FGF receptors and each has multiple splice variants. FGF basic binds with high affinity to many, but not all, FGFRs. Signaling cascades activated through FGF basic binding to FGFR include the ras-raf-MAPK, PLCY/PKC, and PI3K/AKT pathways (1).
Endotoxin		Less than 0.01 ng endotoxin/1 μg mFGF basic.
Purity		>98% as determined by SDS-PAGE of 6 μg reduced (+) and non-reduced (-) recombinant mFGF basic. All lots are greater than 98% pure.
Source / Purifica	tion	Recombinant mouse FGF basic (mFGF basic) Ala11-Ser154 (Accession #NP_032032) was produced in <i>E. coli</i> at Cell Signaling Technology.
Bioactivity		The bioactivity of recombinant mFGF basic was determined in a NIH/3T3 cell proliferation assay. The ED_{50} of each lot is between 50-400 ng/ml.
Background Refe	erences	1. Dvorak, P. and Hampl, A. (2005) <i>Folia Histochem Cytobiol</i> 43, 203-8. 2. Ornitz, D.M. and Itoh, N. (2001) <i>Genome Biol</i> 2, REVIEWS3005. 3. Shi, Y. et al. (2008) <i>Crit Rev Oncol Hematol</i> 65, 43-53. 4. Fontijn, D. et al. (2006) <i>Br J Cancer</i> 94, 1627-36. 5. Marek, L. et al. (2009) <i>Mol Pharmacol</i> 75, 196-207. 6. Acevedo, V.D. et al. (2009) <i>Cell Cycle</i> 8, 580-8.

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