

Store at
-20C
#61977**Human FGF-basic/FGF2 (154 aa)
Recombinant Protein**

10 µg


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MW (kDa):	UniProt ID:	Entrez-Gene Id:
17	#P09038	2247
Background	FGF basic (FGF2) is produced by epithelial, tumor and other cell types (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 FGF-heparan sulfate binding is a step in the 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, PLCγ/PKC, and PI3K/AKT pathways (1).	
Endotoxin	Less than or equal to 1 EU / 1 µg hFGF-basic	
Purity	A greater than 95% purity was determined by SDS-PAGE.	
Source / Purification	Human FGF-basic Recombinant Protein was expressed in <i>E. coli</i> and is supplied in a lyophilized form.	
Bioactivity	The bioactivity of Human FGF-basic Recombinant Protein was determined in a NIH/3T3 cell proliferation assay. The ED ₅₀ of each lot is between 0.05 - 1.0 ng/ml.	
Background References	<ol style="list-style-type: none"> 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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