

Human FGF acidic (hFGF acidic)



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MW (kDa):	UniProt ID:	Entrez-Gene Id:
16	#P05230	2246
Background	FGF acidic is a potent growth factor for fibroblasts and endothelial cells (1). FGF acidic is involved in wound repair, angiogenesis, and development (1). FGF acidic is secreted from cells via an endoplasmic reticulum/Golgi independent mechanism (1,2). The ability of FGF acidic to bind to heparin sulfate is required for its ability to interact with FGF receptors and induce signaling (1-4). There are four distinct FGF receptors and each has multiple splice variants (1,3). FGF acidic binds with high affinity to many, but not all, FGFRs (1). Signaling cascades activated through FGF basic binding to FGFR include the ras-raf-MAPK, PLC γ /PKC, and PI3K/Akt pathways (1).	
Endotoxin	Less than 0.01 ng endotoxin/1 μ g hFGF acidic.	
Purity	>98% as determined by SDS-PAGE of 6 μ g reduced (+) and non-reduced (-) recombinant hFGF acidic. All lots are greater than 98% pure.	
Source / Purification	Recombinant human FGF acidic (hFGF acidic) Phe16-Asp155 (Accession #NP_000791) was produced in <i>E.coli</i> at Cell Signaling Technology.	
Bioactivity	The bioactivity of recombinant hFGF acidic was determined in a NIH/3T3 cell proliferation assay. The ED ₅₀ of each lot is between 7-20 pg/ml.	
Background References	<ol style="list-style-type: none"> 1. Powers, C.J. et al. (2000) <i>Endocr Relat Cancer</i> 7, 165-97. 2. Prudovsky, I. et al. (2003) <i>J Cell Sci</i> 116, 4871-81. 3. Ornitz, D.M. and Itoh, N. (2001) <i>Genome Biol</i> 2, REVIEWS3005. 4. Mohammadi, M. et al. (2005) <i>Curr Opin Struct Biol</i> 15, 506-16. 	

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