

## RECOMBINANT HUMAN FIBROBLAST GROWTH FACTOR-ACIDIC

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<b>CATALOG NUMBER:</b>	GF002
<b>LOT NUMBER:</b>	
<b>QUANTITY:</b>	50 µg
<b>DESCRIPTION:</b>	Fibroblast Growth Factor-acidic (FGF-a or FGF-1) is a heparin binding growth factor, which stimulates the proliferation of a wide variety of cells including mesenchymal, neuroectodermal and endothelial cells. Human FGF-acidic is a 15.8 kDa protein containing 140 amino acid residues.
<b>SOURCE:</b>	<i>E. coli</i>
<b>PURITY:</b>	Greater than 95% by SDS-PAGE and HPLC analysis. Endotoxin level is less than 0.1 ng per µg (1EU/µg) of FGF-a.
<b>ACTIVITY:</b>	The ED <sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is ≤ 10.0 ng/mL, corresponding to a specific activity of ≥ 1 x 10 <sup>5</sup> units/mg.
<b>APPLICATIONS:</b>	For most <i>in vitro</i> applications, FGF-a exerts its biological activity in the concentration range of 1.0 to 50 ng/mL. Responding cells are (partial list): Endothelial, mesenchymal cells.
<b>PRESENTATION:</b>	Sterile filtered. Lyophilized from 5 mM Sodium Phosphate, pH 7.2 + 100 mM NaCl.
<b>STORAGE/HANDLING:</b>	The lyophilized FGF-acidic, though stable at room temperature for a few weeks, is best stored at -20°C for up to 12 months after date of receipt. After a quick spin, reconstitute in 5mM Sodium Phosphate, pH 7.2 to a concentration of < 0.5 mg/mL. This solution can be diluted into other buffered solutions and stored at 4°C for 1 week or -20°C for future use. Reconstituted FGF-a should be stored in working aliquots at -20°C for up to 6 months. Repeated freeze/thaw cycles will result in some loss of activity.

*For research use only; not for use as a diagnostic.*