

# Active Recombinant Human Basic Fibroblast Growth Factor

Cat. No. FGF2-5H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human basic FGF is produced by genetically engineered yeast, and purified by heparin-Sepharose affinity chromatography.
<b>Species</b>	Human
<b>Source</b>	yeast
<b>Description</b>	Human Basic Fibroblast Growth Factor is a mitogen that stimulates cell growth for such cells as fibroblasts, endothelial cells, myoblasts, glial cells and smooth muscle cells. Basic FGF is composed of 146 amino acid residues (pro 1 to ser 146), and is 55% homologous with acidic FGF, including two conserved cysteine residues.
<b>Form</b>	Lyophilized powder
<b>Bio-activity</b>	The mitogenic activity of human basic FGF is identical to natural bovine basic FGF, as measured by stimulation of 3H-thymidine incorporation into human foreskin fibroblast cells.
<b>Molecular Mass</b>	17.5 KDa
<b>Purity</b>	Over 95% pure by N-terminal amino acid sequencing, amino acid composition, HPLC analysis, and SDS gel electrophoresis.
<b>Stability</b>	Several months, lyophilized or in solution, at pH 6-7 and +4°C.

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**Storage**

Store at +4°C. Reconstitution is best in water or buffer near neutral pH, since it is unstable in acidic solutions. After reconstitution, storage in aliquots at -80°C is recommended.

## GENE INFORMATION

**Gene Name**

FGF2 fibroblast growth factor 2 (basic) [ Homo sapiens (human) ]

**Official Symbol**

FGF2

**Synonyms**

FGF2; fibroblast growth factor 2 (basic); BFGF; FGFB; HBGF-2; fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor Bfgf; Basic fibroblast growth factor

**Gene ID**

2247

**mRNA Refseq**

NM\_002006

**Protein Refseq**

NP\_001997

**MIM**

134920

**UniProt ID**

P09038

**Chromosome Location**

4q26

**Pathway**

Activated point mutants of FGFR2; Adaptive Immune System; Angiopoietin receptor Tie2-mediated signaling

**Function**

chemoattractant activity; cytokine activity; fibroblast growth factor receptor binding

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