Active Recombinant Human Basic Fibroblast Growth Factor

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

SPECIFICATION

Product Overview	Human basic FGF is produced by genetically engineered yeast, and purified by heparin-Sepharose affinity chromatography.
Species	Human
Source	yeast
Description	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.
Form	Lyophilized powder
Bio-activity	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.
Molecular Mass	17.5 KDa
Purity	Over 95% pure by N-terminal amino acid sequencing, amino acid composition, HPLC analysis, and SDS gel electrophoresis.
Stability	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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