

## Active Recombinant Human FGF2

**Cat. No.** FGF2-169H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Fibroblast Growth Factor-2 Human Recombinant (FGF-2) produced in Sf9 insect cells is a single, glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17353 Dalton. The FGF-basic is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.
<b>Form</b>	Sterile Filtered liquid formulation. The sterile protein solution (0.5mg/ml) contains 20mM Tris pH=7.9, 100mM KCl, 1mM DTT and 20% glycerol.
<b>Bio-activity</b>	The ED50, calculated by the dose-dependant proliferation of BAF3 cells expressing

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FGF receptors (measured by 3H-thymidine uptake) is <0.5 ng/ml,="" corresponding="" to="" a="" specific="" activity="" of="">

**Molecular Mass** 17353 Dalton

**AA Sequence** The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Ala-Gly-Ser-Ile.

**Purity** Greater than 98.0% as determined by RP-HPLC and SDS-PAGE.

**Stability** Fibroblast Growth Factor-basic although stable at 4oC for 3 weeks, should be stored desiccated below -18oC. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

## 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](#)

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<b>UniProt ID</b>	P09038
<b>Chromosome Location</b>	4q26
<b>Pathway</b>	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton; aling by FGFR; SHC-mediated cascade; Syndecan-4-mediated signaling events;
<b>Function</b>	growth factor activity; heparin binding; protein binding; voltage-gated calcium channel activity; ligand-dependent nuclear receptor transcription coactivator activity; protein tyrosine kinas activity

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