

Active Recombinant Human FGF2

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Insect Cells
Description	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.
Form	Sterile Filtered liquid formulation. The sterile protein solution (0.5mg/ml) contains 20mM Tris pH=7.9, 100mM KCl, 1mM DTT and 20% glycerol.
Bio-activity	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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UniProt ID	P09038
Chromosome Location	4q26
Pathway	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton; aling by FGFR; SHC-mediated cascade; Syndecan-4-mediated signaling events;
Function	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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