

Active Recombinant Human FGF2 Protein

Cat. No. FGF2-046H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human basic fibroblast growth factor is a single-chain, non-glycosylated polypeptide composed of 145 amino acid residues, featuring one disulfide bond and a theoretical molecular weight of approximately 16.5 kDa. it is expressed in yeast.
Species	Human
Source	Yeast
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 lyophilized powder
Molecular Mass	~16.5 kDa
Bio-activity	Activity is determined by a cell-proliferation assay using the BALB/c 3T3 cell line, with an ED50 of less than 56 ng/mL.

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Endotoxin	<1 EU/μg determined by LAL.
Purity	≥97%
Storage	Lyophilized samples remain stable for 36 months when stored at –20 to –70 centigrade from the date of manufacture. After reconstitution, the cytokine can be kept for one month at 2–8 centigrade under sterile conditions, or for three months at –20 to –70 centigrade in a manual-defrost freezer, without significant loss of activity. Avoid repeated freeze-thaw cycles.
Storage Buffer	This product is supplied as a sterile lyophilized powder in a buffer of 50 mM sodium phosphate, pH 7.0.
Reconstitution	Before opening the vial, centrifuge at 10, 000 rpm for 30–60 seconds, or at 3, 000 rpm for 5 minutes, then reconstitute with 0.2 mL of sterile water.

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 (basic) [Homo sapiens (human)]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2 (basic); FGFB; fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor bFGF; BFGF; FGF-2; HBGF-2
Gene ID	2247
mRNA Refseq	NM_002006
Protein Refseq	NP_001997

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MIM	134920
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UniProt ID	P09038
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