

Recombinant Bovine Fibroblast Growth Factor 2 (basic)

Cat. No. FGF2-1182B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant bovine FGF2 is a single, non-glycosylated polypeptide chain containing 172 amino acids.
Species	Bovine
Source	E.coli
Description	FGF2 is a single-chain polypeptide growth factor that plays a significant role in the process of wound healing and is a potent inducer of angiogenesis. Several different forms of the human protein exist ranging from 18-24 kDa in size due to the use of alternative start sites within the FGF-2 gene. It has a 55 percent amino acid residue identity to FGF-1 and has potent heparin-binding activity.
Form	Lyophilized from a sterile filtered solution in PBS, pH 7.4+4% mannitol.
Molecular Weight	18.5 kDa
Purity	> 97% by SDS-PAGE and HPLC analyses
Endotoxin Level	< 0.1 ng/g of FGF2
Biological Activity	Calculated by the dose dependent proliferation of BALB/c 3T3 cells, the ED50 is <1.0 ng/ml.
Specific Activity	1 x 10 ⁶ Units/mg

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Sequences	MTMITNSSSVPGDPLESMAA GSITTLPALP EDGGSGAFPP GHFKDPKRLY CKNGGFFLRI HPDGRVDGVR EKSDPHIKLQLQAEERGVS IKGVCANRYL AMKEDGRLLA SKCVTDECFF FERLESNNYN TYRSRKYSSW YVALKRTGQYKLGPKTGPGQ KAILFLPMSA KS
Reconstitution	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.
Storage	Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. Avoid repeated freeze/thaw cycles.
Official Symbol	FGF2

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor2 (basic) [Bos taurus]
Synonyms	FGF2; fibroblast growth factor 2 (basic); heparin-binding growth factor 2; BFGF; HBGF-2; basic fibroblast growth factor
Gene ID	281161
mRNA Refseq	NM_174056
Protein Refseq	NP_776481
UniProt ID	P03969
Chromosome	17

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Location	
Pathway	Downstream signaling of activated FGFR; FGFR ligand binding and activation; FGFR1 ligand binding and activation; FGFR1b ligand binding and activation; FGFR1c ligand binding and activation; FGFR2 ligand binding and activation; FGFR2c ligand binding and activation; FGFR3 ligand binding and activation; FGFR4 ligand binding and activation; FRS2-mediated cascade; IRS-mediated signalling; Insulin receptor signalling cascade; MAPK signaling pathway; Melanoma
Function	growth factor activity; heparin binding; voltage-gated calcium channel activity
PDB rendering based on 1bas.	