

Recombinant Bovine FGF2 Protein

Cat. No. FGF2-12B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant bovine Fibroblast Growth Factor-Basic containing 155 amino acids without tag was expressed in E. coli.
Species	Bovine
Source	E.coli
Description	FGF-basic 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 AUG and non-AUG (CUG) 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 White lyophilized (freeze-dried) powder.
Molecular Mass	17.25 kDa
Identity	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.85 as the extinction coefficient for a 0.1% (1 mg/mL) solution. This value is calculated by the PC GENE computer analysis program of protein sequences.

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	2. Analysis by RP-HPLC, using a calibrated solution of FGF-2 Bovine as a Reference Standard.
N-terminal Sequence Analysis	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Ala-Gly-Ser.
Purity	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Storage	Lyophilized Fibroblast Growth Factor 2 Bovine although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution FGF-b Bovine Recombinant should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. Please prevent freeze-thaw cycles.
Concentration	The FGF-b Bovine was lyophilized from a concentrated (1 mg/mL) sterile solution containing 1% HSA.
Reconstitution	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-2 Bovine Recombinant in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Shipping	At room temperature

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 [<i>Bos taurus</i> (cattle)]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2; BFGF; FGF-2; HBGF-2; fibroblast growth factor 2;

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basic fibroblast growth factor; fibroblast growth factor 2 (basic); heparin-binding growth factor 2

Gene ID 281161

mRNA Refseq NM_174056

Protein Refseq NP_776481

UniProt ID F1N3T9

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