

Active Recombinant Bovine FGF2 Protein (146 aa)

Cat. No. FGF2-399F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant bovine Fibroblast Growth Factor-basic (rbFGF-basic) produced in E. coli is a single non-glycosylated polypeptide chain containing 146 amino acids. A fully biologically active molecule, rbFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Bovine
Source	E.coli
ProteinLength	146
Description	Fibroblast Growth Factor-basic (FGF-basic), also known as FGF-2, is a pleiotropic cytokine and one of the prototypic members of the heparin-binding FGF family. Like other FGF family members, FGF-basic has the β trefoil structure. In vivo, FGF-basic is produced by a variety of cells, including cardiomyocytes, fibroblasts, and vascular cells. FGF-basic regulates a variety of processes including cell proliferation, differentiation, survival, adhesion, motility, apoptosis, limb formation and wound healing. FGF-basic can be tumorigenic due to its role in angiogenesis and blood vessel remodeling. The angiogenic effects of FGF-basic can produce beneficial cardioprotection during acute heart injury.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 1.0 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of $> 1 \times 10^6$ units/mg.

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Molecular Mass	16.4 kDa, observed by reducing SDS-PAGE.
AA Sequence	PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQLQ AEERGVSISIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYS SWYVALKRTGQYKLGPKTGPGQKAILFLPMSAKS
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Storage	Lyophilized recombinant bovine Fibroblast Growth Factor-basic (rbFGF-basic) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rbFGF-basic remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	FGF2 fibroblast growth factor 2 [Bos taurus (cattle)]
Official Symbol	FGF2
Synonyms	FGF2; fibroblast growth factor 2; BFGF; FGF-2; HBGF-2; fibroblast growth factor 2; basic fibroblast growth factor; fibroblast growth factor 2 (basic); heparin-binding growth factor 2
Gene ID	281161

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mRNA Refseq	NM_174056
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Protein Refseq	NP_776481
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UniProt ID	F1N3T9
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