

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 × 10⁶ units/mg.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	16.4 kDa, observed by reducing SDS-PAGE.
AA Sequence	PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQLQ AEERGVVSIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYS 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 [<i>Bos taurus</i> (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](#)

Protein Refseq [NP_776481](#)

UniProt ID [F1N3T9](#)

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