

FGF2

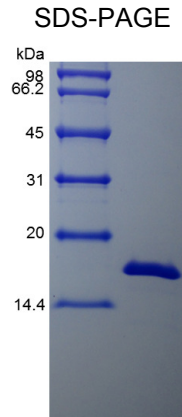
Recombinant Bovine Fibroblast Growth Factor-basic

Catalog No.	CRF023A CRF023B CRF023C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	BFGF, FGFB, HBGF-2, basic fibroblast growth factor bFGF, fibroblast growth factor 2, heparin-binding growth factor 2, prostatropin;BFGF; HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2		
Description:	<p>Recombinant Bovine Fibroblast Growth Factor-basic is a single non-glycosylated polypeptide chain containing 147 amino acids.</p> <p>Background: Fibroblast Growth Factor-basic (bFGF) 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. The growth factor is an extremely potent inducer of DNA synthesis in a variety of cell types from mesoderm and neuroectoderm lineages. It was originally named basic fibroblast growth factor based upon its chemical properties and to distinguish it from acidic fibroblast growth factor. Other homologous FGF belonging to the same family are int-2 (FGF-3), FGF-5 , FGF-6 , K-FGF and KGF (keratinocyte growth factor, FGF-7). All factors are products of different genes, some of which are Oncogene products (FGF-3, FGF-4, FGF-5).</p>		
Gene ID:	281161		
Source:	<i>E. coli</i>		
Molecular Weight:	Approximately 16.5 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
Purity:	>97% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	Less than 1EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by a cell proliferation assay using mouse balb/c 3T3 cells is less than 0.1 ng/ml.		
Specific Activity:	>1.0 x 10 ⁷ Units/mg		
Amino Acid Sequence:	MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAE E RGVVSIGVC ANRYLAMKED GRLASKCVT DECFFFERLE SNNYNTYRSR KYSSWYVALK RTGQYKLGPK TGPGQKAILF LPMSAKS		
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 & Stability:

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.**



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

