
Product Data Sheet

Product Name: FGF 2 Rat
 Cat. No.: GP20219
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	HBGH-2; HBGF-2; Prostatropin; FGF-2; FGB-b; Fibroblast Growth Factor-basic; Basic fibroblast growth factor; bFGF; Heparin-binding growth factor 2.		
Amino Acid Sequence	MPALPEDGGGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHV KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTEE CFFFERLESN NYNTYRSRKY SSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS.		
Solubility	It is recommended to reconstitute the lyophilized Rat bFGF in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	FGF-b was lyophilized from 1mg/ml solution after extensive dialysis against 10mM Na ₂ PO ₄ , pH 7.5 and 50mM NaCl.		

Introduction

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. The heparin-binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro. There are differences in the tissue distribution and concentration of these 2 growth factors.

Caution: Product has not been fully validated for medical applications. For research use only.

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Biological Activity

The ED50 range as determined by the dose-dependant proliferation of 3T3 cells was found to be less than 0.13-0.2ng/ml.

Stability

Lyophilized Rat bFGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Rat FGF-2 should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Background

bFGF Rat Recombinant (FGF-2) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16.4 kDa.The bFGF2 is purified by proprietary chromatographic techniques.

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