9051 Mira Mesa Blvd, #910094
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FGF 2 Rat

Fibroblast Growth Factor-basic Rat Recombinant
GRF0069

Product Overview

Name	FGF 2 Rat
Description	
Fibroblast Growth Factor-basic Rat Recombinant	
Accession (Primary)	P13109
Synonyms	
HBGH-2, HBGF-2, Prostatropin, FGF-2, FGB-b, Fibroblast Growth Factor-basic, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
FGF-b was lyophilized from 1mg/ml solution after extensive dialysis against 10mM Na 2 PO 4 , pH 7.5 and 50mM NaCl.	
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.	

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Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MPALPEDGGGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHV KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTEE CFFFERLESN NYNTYRSRKY SSWYVALKRT GQYKLGSKTG PGQKAILFLP MSAKS.

Biological Activity

The ED 50 range as determined by the dose-dependant proliferation of NR6R-3T3 cells was found to be 0.903ng/ml, corresponding to a specific activity of 1.1x10 7 units/mg.

Solubility

It is recommended to reconstitute the lyophilized Rat bFGF in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

FGF 2 Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P13109)