9051 Mira Mesa Blvd, #910094
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FGF2 (147), Bovine

Fibroblast Growth Factor-basic (147 a.a.) Bovine Recombinant
GRF0097

Product Overview

Name	FGF2 (147), Bovine

Description

Fibroblast Growth Factor-basic (147 a.a.) Bovine Recombinant

Accession (Primary)	P03969

Synonyms

HBGH-2, HBGF-2, Prostatropin, FGF-2, FGB-b.

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 5 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

Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.

Stability

Lyophilized FGF2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Fibroblast Growth Factor-basic (147 a.a.) should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles .

Purity

Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Amino acid sequence

MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAEE RGVVSIKGVC ANRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYSSWYVALK RTGQYKLGPK TGPGQKAILF LPMSAKS.

Biological Activity

Solubility

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-basic (147 a.a.) in sterile PBS not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

FGF2 (147), Bovine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P03969)