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FGF 2 Human (147 a.a.)

Fibroblast Growth Factor Basic 147 a.a. Human Recombinant
GRF0064

Product Overview

Name	FGF 2 Human (147 a.a.)

Description

Fibroblast Growth Factor Basic 147 a.a. Human Recombinant

Accession (Primary)	P09038

Synonyms

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

Introduction

FGF-basic is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Three alternatively spliced variants encoding different isoforms have been described. 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

The bFGF was lyophilized from a sterile filtered solution containing 20mM Tris-HCl, pH 7.6 and 150mM NaCl.

Stability

Lyophilized basic-FGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGFb 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.

Purity

Greater than 98.0% as determined by SDS-PAGE.

Amino acid sequence

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MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAEE RGVVSIKGVC ANRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TGPGQKAILF LPMSAKS.

Biological Activity

The ED 50 , Calculated by the dose- dependent proliferation of mouse BALB/c 3T3 cells is < 0.05ng/ml corresponding to a specific activity of 2.0x10 7 units/mg.

Solubility

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

Precautions

FGF 2 Human (147 a.a.) is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P09038)