



## FGF-basic 154 Human

### Product Description

<b>Catalog #:</b>	CJQ232, 100 µg CJQ230, 500 µg CJQ233, 1 mg
<b>Name:</b>	<b>FGF-basic 154 Human, recombinant</b> FGF2, HBGF-2, Prostatropin MW: 17.2 kDa
<b>Source :</b>	<i>E. coli</i>
<b>Physical</b>	Sterile filtered white lyophilized (freeze-dried) powder
<b>Appearance :</b>	
<b>Storage:</b>	-20°C
For Research Use Only	

### Introduction

Fibroblast Growth Factors (FGFs) are a 22 member family of proteins known to be involved in angiogenesis, wound healing and embryonic development. As a family, they bind to heparin and signal through four receptor tyrosine kinases called, FGFR1, 2, 3 and 4. Although the mechanism remains unclear, FGF-basic 154, also known as FGF-2, is a critical component in keeping embryonic stem cells undifferentiated in cell culture systems. Recombinant human FGF-b 154 (FGF-2) is a non-glycosylated protein, containing 154 amino acids, with a molecular weight of 17.2 kDa.

### Directions for use

#### Formulation and Stability

Recombinant human FGF-basic 154 is lyophilized from a 10 mM Na<sub>2</sub>PO<sub>4</sub>, pH 8.0. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

#### Reconstitution

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

#### Protein Content and Purity (typically ≥ 97%) determined by

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

FT-CJQ230

## Endotoxin Level

Measured by kinetic LAL analysis and is typically  $\leq 1$  EU/ $\mu$ g protein.

## Biological Activity

The activity is determined by the dose-dependent proliferation of murine BALB/c 3T3 cells and is typically less 1 ng/mL.

## AA Sequence

AAGSITTLPA LPEDGGSGAF PPGHFKDPKR LYCKNGGFFL RIHPDGRVDG VREKSDPHIK LQLQAEERGVS  
VSIKGVCANR YLAMKEDGRL LASKCVTDEC FFERLESNN YNTYRSRKYT SWYVALKRTGQYKLGSKTGP  
GQKAILFLPM SAKS

## Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information

Hotline : +33(0)4 70 03 73 06 – [Interbiotech@interchim.com](mailto:Interbiotech@interchim.com)

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