



***Recombinant Human FGF-basic 154***  
*(Fibroblast Growth Factor basic 154)*

*Catalog Number: 100-146*  
*Accession Number: P09038*

***Specifications and Uses:***

**Alternate Names:** FGF2, HBGF-2, Prostatropin

**Description:**

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.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**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

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

**Biological Activity:**

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

**AA Sequence:**

AAGSITTLPA LPEDGGSGAF PPGHFKDPKR LYCKNGGFFL RIHPDGRVDG VREKSDPHIK LQLQAEERGV  
VSIKGVCANR YLAMKEDGRL LASKCVTDEC FFFERLESNN YNTYRSRKYT SWYVALKRTG QYKLGSKTGP  
GQKAILFLPM SAKS

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

Gentaur Molecular Products  
Voortstraat 49  
1910 Kampenhout, Belgium