

9853 Pacific Heights Blvd. Suite D. San Diego, CA 92121, USA Tel: 858-263-4982

Email: info@abeomics.com

## 32-12067: Human Fibroblast Growth Factor-basic 154

 Gene :
 FGF2

 Gene ID :
 2247

 Uniprot ID :
 P09038

Alternative Name: Basic fibroblast growth factor, Heparin-binding growth factor 2, FGFB

## **Description**

Source: Genetically modified E.coli.

Predicted MW: Monomer, 17.3 kDa (155 aa)

Basic fibroblast growth factor (FGF-basic), also known as FGF-2, is expressed by endothelial cells and is a mediator of angiogenesis. FGF-basic also has cardioprotective functions during heart injury. FGF-basic is a critical component for embryonic stem cell culture systems and is necessary for maintaining cells in an undifferentiated state. Recombinant FGF-basic 154 is the full length FGF-basic protein encoded by the human FGF-2 gene. There are no detectable differences in biological activity between FGF-basic 154 and the truncated FGF-basic 147 proteins.

## **Product Info**

**Amount :** 50 μg / 100 μg

**Purification:** Reducing and Non-Reducing SDS PAGE at >= 95%

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium

**Content :** phosphate, 75 mM sodium chloride, pH 8.0

Sterile water at 0.1 mg/mL

**Storage condition :** Store at -20°C

Amino Acid: MAAGSITTLP ALPEDGGSGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD GVREKSDPHI KLOLOAEERG

VVSIKGVCAN RYLAMKEDGR LLASKCVTDE CFFFERLESN NYNTYRSRKY TSWYVALKRT GQYKLGSKTG

PGQKAILFLP MSAKS

## **Application Note**

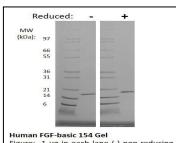
**Endotoxin:** Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

Biological Activity was determined by 3T3 Proliferation. at <=5 ng/mL;  $>=2.0 \times 10^5$  units/mg (typical ED50 is <1 ng/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80°C and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vialed to compensate for this loss.



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Human FGF-basic 154 Gel Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human FGF basic has a predicted MW of 17.3 kDa.

