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# 32-12065: Human Fibroblast Growth Factor-basic 147

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|---|---|
| **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, 16.5 kDa (147 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. Degredation of the full length FGF-basic N-terminus results in a truncated FGF-basic 147aa protein, when the protein is isolated from biological sources. The N-terminus extensions influence the localization of FGF-basic within the cell, but do not affect the biological activity of FGF-basic. Therefore, there are no detectable differences in biological activity between the full length FGF-basic 154aa and the truncated FGF-basic 147 aa recombinant proteins.

## Product Info

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| **Amount :** | 50 µg / 100 µg |
| **Purification :** | Reducing and Non-Reducing SDS PAGE at >= 95% |
| **Content :** | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 75 mM sodium chloride, pH 7.5<br>Sterile water at 0.1 mg/mL |
| **Storage condition :** | Store at -20°C |
| **Amino Acid :** | MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAEE RGVVSIKGVC ANRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TGPGQKAILF LPMSAKS |

## Application Note

**Endotoxin:** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Biological Activity was determined by 3T3 cell proliferation at <=5 ng/mL; >= 2.0 x 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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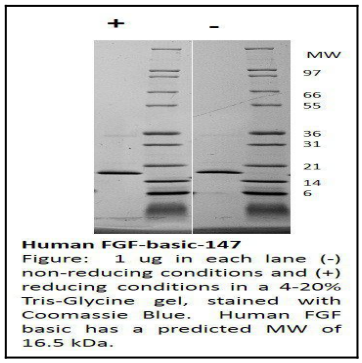


**Human FGF-basic-147**
Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human FGF basic has a predicted MW of 16.5 kDa.