

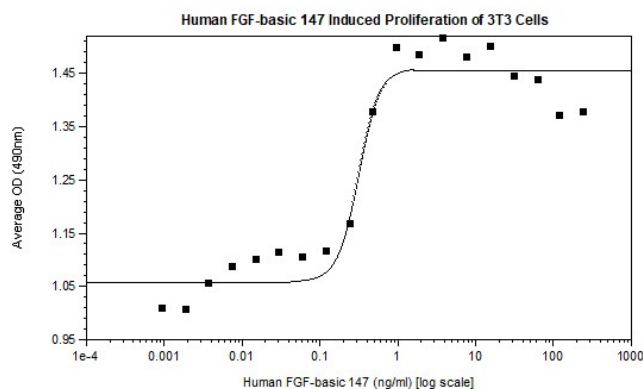
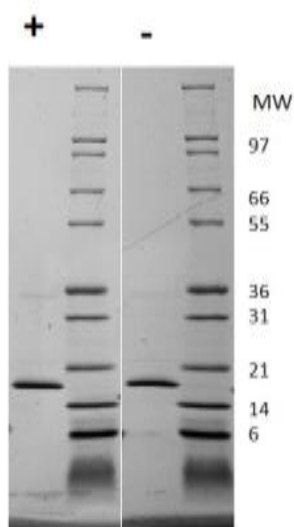
FGF2

Recombinant Human Fibroblast Growth Factor Basic/ FGF2

| | | | |
|-----------------------------|---|------------------|--------------------------|
| Catalog No. | CRF001A CRF001B CRF001C | Quantity: | 10 µg 50 µg 1.0 mg |
| Alternate Names: | Basic fibroblast growth factor, bFGF, Fibroblast growth factor 2, Heparin-binding growth factor 2, HBGF-2 | | |
| Description: | <p>Human Fibroblast Growth Factor basic (FGF2) is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. FGF2 is an extremely potent inducer of DNA synthesis in a variety of cell types from mesoderm and neuroectoderm lineages and has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, tumor growth and angiogenesis. Multiple forms of the human protein exist ranging from 18-24 kDa in size due to the use of alternative start sites within the FGF2 gene.</p> <p>Recombinant Human Fibroblast Growth Factor Basic is a single, non-glycosylated polypeptide chain containing 147 amino acids. An alternate form, containing 154 amino acids, also exists, but there is no detectable difference in biological activity between the 154aa and 147aa forms.</p> | | |
| Gene ID: | 2247 | | |
| Uniprot ID: | P09038 | | |
| Source: | <i>E. coli</i> | | |
| Molecular Weight: | 16.5 kDa (147 aa) monomer | | |
| Formulation: | Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 75 mM sodium chloride, pH 7.5 | | |
| Purity: | ≥95% by reducing and nonreducing SDS-PAGE | | |
| Endotoxin Level: | ≤1 EU/µg by kinetic LAL | | |
| Biological Activity: | ED ₅₀ ≤ 1 ng/ml, determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells. | | |
| Specific Activity: | ≥2 x 10 ⁵ units/mg | | |
| Amino Acid Sequence: | MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAAE RGVVSIKVC ANRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TGPGQKAILF LPMSAKS | | |
| Reconstitution: | Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/ml. DO NOT VORTEX. Allow several minutes for complete reconstitution. Further dilutions should be made in appropriate buffered solutions. | | |

Storage & Stability: Upon receipt, store as supplied at -20°C to -80°C for up to one year. Upon reconstitution as directed, the preparation is stable 1 month at 2-8 °C, 3 months at -20°C to -80 °C. For long term storage reconstitute in working aliquots containing 0.1% BSA and store at -80 °C. Avoid repeated freeze-thaw cycles.

Figure 1:
1 µg in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel. stained with Coomassie Blue.



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.