

FGF2

Recombinant Human FGF-2 Basic, GMP Grade

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|---------------------------------|---|------------------|----------------|
| Catalog No. | CRF001A-GMP CRF001B-GMP | Quantity: | 5 µg 100 µg |
| Alternate Names: | Fibroblast growth factor 2, FGF-2, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2, HBGF-2 | | |
| Description: | <p>Fibroblast growth factor was found in pituitary extracts in 1973 and then tested in a bioassay that caused fibroblasts to proliferate. After further fractionating the extract using acidic and basic pH, two different forms have isolated that named "acidic fibroblast growth factor" (FGF1) and "basic fibroblast growth factor" (FGF2). Human FGF-acidic shares 54% amino acid sequence identity with FGF-basic. bFGF plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. bFGF are also involved in a variety of biological processes, including embryonic development, morphogenesis, tissue repair, tumor growth and invasion.</p> <p>Manufacturing and testing of this product complies with ICH Q7 guidelines.</p> | | |
| UniProt ID: | P09038 | | |
| Source: | <i>E. coli</i> | | |
| Molecular Weight: | ~16.5 kDa (147 aa) monomer | | |
| Formulation: | Lyophilized from sterile-filtered 20 mM Tris-HCl, 150 mM NaCl, 5% Trehalose, 0.02% Tween-20, pH 7.6 | | |
| Purity: | > 98% by SDS-PAGE | | |
| Endotoxin Level: | < 0.01EU/µg as determined by LAL method. | | |
| Contaminants: | < 0.05% host cell protein by ELISA < 20 ng/mg host cell DNA by qPCR Mycoplasma - negative Virus - negative | | |
| Biological Activity: | ED ₅₀ < 0.05 ng/ml, determined by a cell proliferation assay using murine balb/c 3T3 cells | | |
| Specific Activity: | > 2.0 × 10 ⁷ U/mg | | |
| Amino Acid Sequence: | MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAE E RGVVSIKVC ANRYLAMKED GRLLASKCVT DECFERLE SNNYNTYRSR KYTSWYVALK RTGQYKLGSK TGPQKAILF LPMSAKS | | |
| Reconstitution: | <p>Centrifuge the vial prior to opening. Reconstitute with sterile water at 0.1-1.0 mg/ml by gently pipetting to wash down the sides of the vial to ensure full recovery of the protein into solution. Do not vortex. Allow a few minutes for complete solubilization.</p> | | |
| Storage & Stability: | <p>Lyophilized vial is shipped at ambient temperature. Immediately upon receipt, store unopened vial at -20°C (manual defrost freezer) or -80°C for up to 36 months. Upon reconstitution, prepare working aliquots and store at -20°C (manual defrost freezer) or -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. For short term storage reconstituted material is stable for 4-6 weeks when stored at 2-8°C. Avoid repeated freeze-thaw cycles.</p> | | |



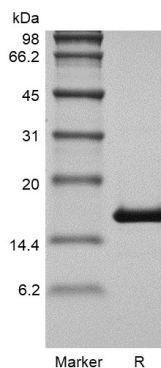
Applications:

For *ex vivo* use only. Not for injection or diagnostic procedures. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

Country of Origin:

USA

SDS-PAGE GMP Grade rhFGF-2
Single Prominent band at ~16.5 kDa



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



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