

Recombinant Human FGF-basic, Animal-free

Recombinant human FGF-basic (AA 1-155), also called as FGF-2 or bFGF, is a bioactive protein intended for use in cell culture applications. bFGF is a heparin-binding member of the FGF superfamily of molecules. It is involved in a number of biological processes including embryonic development, differentiation, survival, regeneration and migration. In addition, bFGF is a critical factor for growing embryonic stem cells in culture to remain cell in an undifferentiated state.

Cell Culture of NIH/3T3 Cells

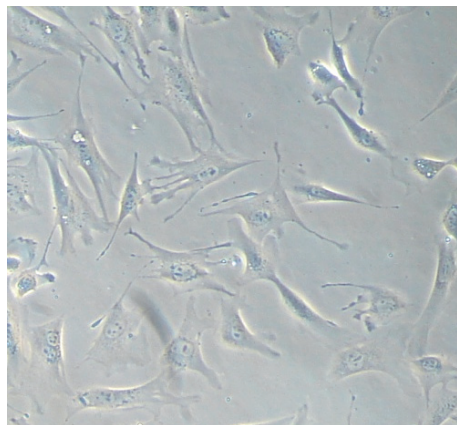


Figure 1
NIH/3T3 cells (ATCC: CCL-1668) were cultured in the absence of bFGF.

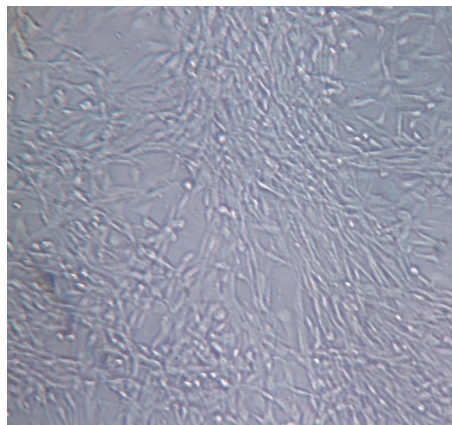
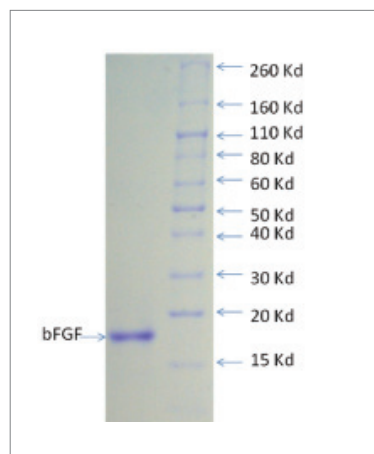


Figure 2
NIH/3T3 cells were cultured with 0.25 ng/ml bFGF in serum-free medium at 37°C, 5% CO₂ for 24 hours.

SDS-PAGE of Human bFGF-basic



| | |
|----------------|--|
| Source | <i>Escherichia Coli</i> . |
| Purity | Greater than 98% as determined by SDS-PAGE |
| Endotoxin | Less than 0.01 ng/μg cytokine as determined by the LAL assay |
| Bioactivity | ED ₅₀ = 0.1-0.3 ng/ml as determined by the dose dependent proliferation of NIH 3T3 cells (figure. 1,2) |
| Formulation | Sterile filtered and lyophilized from Tris-HCl buffer (10 mM Tris-HCl pH 7.5, 150 mM NaCl). |
| Storage | bFGF is shipped at 4°C with ice packs. Lyophilized bFGF is stable at -20°C for up to 12 months from date of receipt. |
| Reconstitution | Centrifuge vial before opening. It is recommended to reconstitute bFGF in sterile 10 mM Tris-HCl, pH 7.5 to yield a stock solution of 0.1 mg/ml of bFGF. It is stable for up to 6 months when stored at -20°C and up to 12 months when stored at -80°C. Multiple freeze/thaw cycles will result in significant loss of activity. |

Ordering Information

| Product Name | Storage | Product No. | PKG Size |
|--|---------|-------------|----------|
| Recombinant Human FGF-basic, Animal-free | F | NU0005-1 | 10 μg |
| | | NU0005-3 | 50 μg |
| | | NU0005-6 | 1 mg |

[Storage] F = Freezer

Recombinant Human FGF are produced by Nacalai USA, Inc.