



Catalog Number: PR27013

Product Type: Recombinant Protein

Source: *E.Coli*

Amino Acid Sequence: MAAGSITLTP ALPEDGGSGA FPPGHFKDPK RLYCKNGGFF LRIHPDGRVD
GVREKSDPHI KLQLQAEERG VVSIKGVCAN RYLAMKEDGR LLASKCVTDE
CFFFERLESN NYNTYRSRKY TSWYVALKRT GQYKLGSKTG PGQKAILFLP
MSAKS

Description/Molecular Mass: Fibroblast Growth Factor-2 Human Recombinant (FGF-2) produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17353 Dalton.

The FGF2-b is purified by proprietary chromatographic techniques.

Protein Content: Protein quantitation was carried out by two independent methods
1. UV spectroscopy at 280 nm using the absorbency value of 0.8511 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a calibrated solution of Fibroblast Growth Factor-b as a Reference Standard.

Biological Activity: The ED₅₀, calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by 3H-thymidine uptake) is <0.5 ng/ml, corresponding to a specific activity of 2,000,000 Units/mg.

Purity: Greater than 96% as determined by SDS-PAGE.

Format: The protein was lyophilized from a concentrated (1mg/ml) solution in PBS, pH 7.4.

Reconstitution: It is recommended to reconstitute the lyophilized Fibroblast Growth Factor Basic in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Storage: Store at 4°C if entire vial will be used within 2-4 weeks.
Store, frozen at -20°C for longer periods of time.
Please prevent freeze-thaw cycles.

FOR RESEARCH USE ONLY

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