

Product: Fibroblast Growth Factor-basic, Human Recombinant
Catalog #: 11-FGFb
Amount: 20 µg

DESCRIPTION: Recombinant Human FGF-b (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 rHuFGF-b is purified by proprietary chromatographic techniques.
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Ala-Gly-Ser.

SOURCE: *Escherichia Coli.*

PURITY: Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuFGF-b.

DIMERS & AGREGATES: Less than 1% as determined by silver-stained SDS-PAGE gel analysis

FORM: Purified in 5mM Tris pH=7.5 and 150mM NaCl.

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 FGF-b as a Reference Standard.

CONCENTRATION: 0.1 mg/ml

BIOLOGICAL ACTIVITY: rHuFGF-b is fully biologically active when compared to standards.
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 x 10⁶ Units/mg.

STORAGE: -20°C (aliquot), avoid repeated freeze and thaw cycles

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