

**Product:** Fibroblast Growth Factor-basic-Sf9 derived, Human Recombinant  
**Catalog #:** 11-FGFb-Sf9  
**Amount:** 5 µg

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**DESCRIPTION:** Recombinant Human FGF-b (FGF-2) produced in Sf9 insect cells, is a single, glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17353 Dalton.  
The rHuFGF-b-Sf9 is purified by proprietary chromatographic techniques. The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Ala-Gly-Ser-Ile.

**SOURCE:** *Baculovirus*

**PURITY:** Greater than 98.0% 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-Sf9.

**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.

**BIOLOGICAL ACTIVITY:** rHuFGF-b-Sf9 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 10<sup>6</sup> Units/mg.

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

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