

## Fibroblast Growth Factor (basic), Human Recombinant

*Cell Culture Reagents-Growth Supplements*

**Catalogue Number:** CC107

**Description:** FGF-basic is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Three alternatively spliced variants encoding different isoforms have been described. The heparin-binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro. There are differences in the tissue distribution and concentration of these 2 growth factors. Fibroblast Growth Factor-2 Human Recombinant (FGF-2) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 147 amino acids and having a molecular mass of 16539 Dalton. The FGF2 is purified by proprietary chromatographic techniques.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered Clear Solution.

**Formulation:** 100 g/ml solution in 10mM sodium phosphate buffer (pH=8.0) with 0.1% BSA added as stabilizer.

**Stability:** bFGF should be stored at 4°C between 2-7 days and for future use below -20°C. Please avoid freeze-thaw cycles.

**Suitability:** Cell culture tested

**Purity:** Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Biological Activity:** The ED50, measured in a mitogenic assay using quiescent NR6R-3T3 fibroblasts was found to be less than 0.1ng/ml, corresponding to a specific activity of  $3 \times 10^6$  units/mg.

**Amino acid sequence:**

MPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQAEERGVSIIKGVCANRYLAMKEDGRLLASKCVTD  
ECFFFERLESNNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS

Catalogue Number	Description	Protein Conc.	Pack Size
CC107-1UG	bFGF	10 ug/mL	100 uL
CC107-10UG	bFGF	10 ug/mL	1 mL

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES



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