



Fibroblast Growth Factor (basic), Human Recombinant

Cell Culture Reagents-Growth Supplements

Catalogue Number: SC107

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

Stability: bFGF protein solution should be stored at -20°C , for future use should be stored at -80°C. It is recommended that the protein be aliquoted for optimal storage. 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 3×10^6 units/mg.

Amino acid sequence:

MPALPEDGGSGAFPPGHFKDPKRLYCKNGGFLRIHPDGRVDGVREKSDPHIKLQLQAEERGVVSIKGVCANRYLAMKEDGRLLASKCVTD
ECFFFERLESNNYNTYRSRKYTSWYVALKRTGQYKLGSKTGPQKAILFLPMSAKS

Catalogue Number	Description	Protein Conc.	Pack Size
SC107-1UG	bFGF	10 ug/mL	100 uL
SC107-10UG	bFGF	10 ug/mL	1 mL
SC107-10UG-10	bFGF	10 ug/mL	10×1 mL

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