

Technical Data Sheet

Human Fibroblast Growth Factor-basic (rh-bFGF)

General Information

Other name : rh-bFGF, FGF2, FGF-2, HBGF-2

CAS: 106096-93-9

Catalog Number: A07S

Formulation: Lyophilized in 5 mM PB, pH 7.4

Mol. Wt.: 17.2 kDa

Theory pI: 9.58

Resources: *Escherichia coli* (*E. coli*)

Species: human

Purity: $\geq 95\%$ by SDS-PAGE analysis

Endotoxin: < 1.0 EU/ μ g protein

Biological Activity: The EC_{50} , calculated by the dose-dependent proliferation of mouse BALB/c 3T3 cells is 0.25~1 ng/ml, corresponding to a specific activity of $1 \times 10^6 \sim 4 \times 10^6$ units/mg protein.

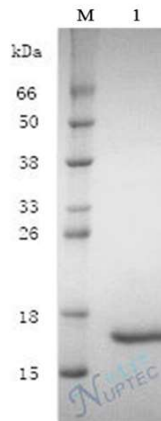
Product is stable for up to three years from date of receipt at -20°C to -80°C .

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

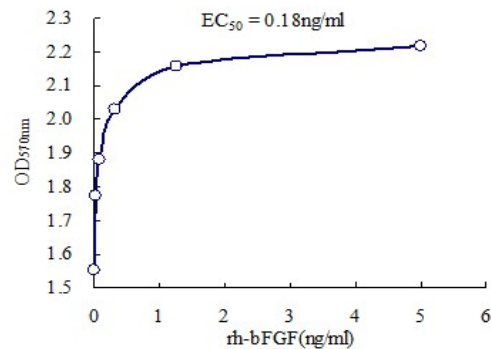
Description

Fibroblast Growth Factor-basic (bFGF), also known as FGF-2, is a heparin-binding member of the FGF superfamily of molecules. It plays important role in cell proliferation and differentiation associated with embryogenesis, tissue regeneration, wound healing, CNS development, angiogenesis, and tumor progression. Additionally, bFGF is a potent mitogenic agent for a wide variety of mesoderm-derived cells including BALB/c 3T3 fibroblasts, capillary and endocardial endothelial cells, myoblasts, vascular smooth muscle cells, mesothelial cells, glial and astroglial cells, and adrenal cortex cells.

Recombinant human bFGF in *E. coli* is a single, non-glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17.2 kDa.



M: M: Protein marker standard
Lane 1: rh-bFGF



rh-bFGF stimulate BALB/c 3T3 Cell proliferation test

It is recommended that the product is reconstituted with sterile water into a final concentration of no more than 0.5 mg/ml.

The use of strong acids and alkalis, strong oxidants, and high concentrations of organic solvents should be avoided to protect the product from denaturation.

Please contact us for any concerns or special requirements.

Research use only or for further manufacturing