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32-1158: FGF 1 Recombinant Protein

Alternative Name: HBGF-1,ECGF-beta,FIBP,FGFIBP,FIBP-1,ECGF,ECGFA,GLIO703,FGF1,FGF-a.

Description

Source: Escherichia Coli. Fibroblast Growth Factor-acidic Human Recombinant (FGF-1) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 140 amino acids and having a molecular mass of approximately 15.8kDa. The FGF acidic is purified by proprietary chromatographic techniques. Acidic fibroblast growth factor 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.

Product Info

Amount: 50 µg

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

Content : The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing PBS, pH 7.4.

 $Lyophilized\ Fibroblast\ Growth\ Factor \hbox{-} 1\ although\ stable\ at\ room\ temperature\ for\ 3\ weeks,\ should$

be stored desiccated below -18°C. Upon reconstitution FGF-a should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid: MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SVGEVYIKST

ETGQYLAMDT DGLLYGSQTP NEECLFLERL EENHYNTYIS KKHAEKNWFV GLKKNGSCKR

GPRTHYGQKA ILFLPLPVSS D.

Application Note

Storage condition:

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-acidic in sterile $18M\hat{\mathbb{Q}}$ -cm H2O at 4 degrees Celsius at a concentration of 0.1mg-0.25mg per 1ml. Allow sample to sit for 5 min. at 4 degrees, spin to remove precipitant. The ED50, calculated by the dose-dependant proliferation of mouse BALB/c 3T3 cells is <0.5 ng/ml, corresponding to a specific activity of > 2,000,000IU/mg.

