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# 32-1162: rFGF 1 Recombinant Protein

**Alternative Name :** Fibroblast growth factor 1,FGF-1,Acidic fibroblast growth factor,aFGF,Heparin-binding growth factor 1,HBGF-1,Fgf1,Fgfa,HBGF1.

## Description

Source : Escherichia Coli. Fibroblast Growth Factor-acidic Rat Recombinant (FGF-1) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 141 amino acids and having a molecular mass of 15.9 kDa.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

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| **Amount :** | 50 µg |
| **Purification :** | Greater than 98.0% as determined by SDS-PAGE. |
| **Content :** | Lyophilized at a concentration of 1 mg/ml in 5mM Na2PO4, pH-7.5 and 50mM NaCl. |
| **Storage condition :** | Lyophilized Fibroblast Growth Factor-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 :** | MFNLPLGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SAGEVYIKGT ETGQYLAMDT EGLLYGSQTP NEECLFLERL EENHYNTYTS KKHAEKNWFV GLKKNGSCKR GPRTHYGQKA ILFLPLPVSS D. |

## Application Note

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-acidic in sterile 18MÃ‚Â©-cm H2O not less than 100Ã‚µg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells, is less than 0.2ng/ml corresponding to a Specific Activity of 5x106IU/mg.