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32-6345: FGF1 Human, 154 a.a.

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

Description

Source: Escherichia Coli.
Sterile Filtered White lyophilized (freeze-dried) powder.
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. FGF1 functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor.FGF1 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 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-acidic Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 154 amino acids and having a molecular mass of 17.3kDa. The FGF1 is purified by proprietary chromatographic techniques.

Product Info

Amount :	10 µg / 50 µg
Purification :	Greater than 97.0% as determined by: Â (a) Analysis by RP-HPLC. Â (b) Analysis by SDS-PAGE.
Content :	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4, with 0.5mM DTT, 2mM EDTA, and 5 % Trehalose. It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-acidic Recombinant in sterile 18M Omega -cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Storage condition :	Lyophilized FGF1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Fibroblast Growth Factor-acidic should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Amino Acid :	AEGEITTFTA LTEKFNLPPG NYKKPKLLYC SNGGHFLRIL PDGTVDGTRD RSDQHIQLQL SAESVGEVYI KSTETGQYLA MDTDGLLYGS QTPNEECLFL ERLEENHYNT YISKKHAEKN WFVGLKKNGS CKRGPRTHYG QKAILFLPLP VSSD.

Application Note

The ED50 as determined by a cell proliferation assay using murine balb/c 3T3 cells is < than 0.5 ng/ml, corresponding to a specific activity of > 2.0 Ã□â□□106 IU/mg in the presence of 10Ã□Âµg/ml Heparin.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.