Recombinant Human Fibroblast Growth Factor-acidic (rh FGF-a / FGF-1)

Synonyms: HBGF-1, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA

Introduction: 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.

Description: Recombinant human FGF-acidic (FGF-1) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 141 amino acids and having a molecular mass of 15967 Dalton. The rh FGF-acidic is purified by proprietary chromatographic techniques.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: lyophilized from 0.22µm filtered solution in 10mM sodium phosphate, 75mM NaCl, pH 7.5. The samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh FGF-acidic in sterile H2O at 4 degrees Celsius at a concentration of 0.1mg - 0.25mg per 1ml. Allow sample to sit for 5 minutes at 4 degrees, spin to remove precipitant.

Stability: Lyophilized rh FGF-acidic although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh FGF-acidic should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Amino acid Sequence: MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SVGEVYIKST ETGQYLAMDT DGLLYGSQTP NEECLFLERL EENHYNTYIS KKHAEEKNWFV GLKKNGSCKR GPRTHYQKA ILFLPLPVSS D

Endotoxicity: The endotoxin level is less than 1 EU / µg determined by LAL method.

Biological Activity: Calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors the ED50 is < 1 ng/ml.

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