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Fibroblast Growth Factor acidic, human recombinant (rHuFGF-acidic-Sf9)

Catalog No: 94956
Lot No: XXXXX
Source: Baculovirus
Synonyms: HBGF-1, ECGF-beta, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA, GLIO703, FGF1, FGF-a

Background

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

Fibroblast Growth Factor-acidic (FGF-1) human recombinant produced in Sf9 insect cells is a single, glycosylated, polypeptide chain containing 140 amino acids and having a molecular mass of 15803 Dalton. FGF-a is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered liquid formulation.

Formulation

The sterile protein solution (1.8 mg/ml) contains 20 mM Tris HCl pH 7.9, 100 mM KCl, 0.2 mM DTT and 20% glycerol.

Stability

Fibroblast Growth Factor-acidic, although stable at 4°C for 3 weeks, should be stored desiccated 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 (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

The sequence of the first five N-terminal amino acids as determined and was found to be Met-Phe-Asn-Leu-Pro.

Activity

The ED50, calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by 3H-thymidine uptake) is <10 ng/ml, corresponding to a specific activity of 100,000 IU/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.