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FGF1 Human, 154 a.a.

Fibroblast Growth Factor-acidic (154 a.a.) Human Recombinant
GRF0085

Product Overview

Name	FGF1 Human, 154 a.a.

Description

Fibroblast Growth Factor-acidic (154 a.a.) Human Recombinant

Accession (Primary)	P05230

Synonyms

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

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. 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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, with 0.5mM DTT, 2mM EDTA, and 5 % Trehalose.

Stability

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 .

Purity

Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Amino acid sequence

AEGEITTFTA LTEKFNLPPG NYKKPKLLYC SNGGHFLRIL PDGTVDGTRD RSDQHIQLQL SAESVGEVYI KSTETGQYLA MDTDGLLYGS QTPNEECLFL ERLEENHYNT YISKKHAEKN WFVGLKKNGS CKRGPRTHYG QKAILFLPLP VSSD.

Biological Activity

Solubility

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-acidic Recombinant in sterile 18MΩ-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

FGF1 Human, 154 a.a. is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05230)