

Recombinant Human FIBP

Cat. No. FIBP-99H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Fibroblast Growth Factor-1 (FGF-1) 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.
Species	Human
Source	Insect Cells
Description	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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by

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SDS-PAGE.

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.

Specific 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 10⁵Units/mg.

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.

GENE INFORMATION

Gene Name

FIBP fibroblast growth factor (acidic) intracellular binding protein [Homo sapiens]

Synonyms

FIBP; Fibroblast growth factor (acidic) intracellular binding protein; FGFIBP; FIBP-1; FGF intracellular binding protein; FGF-α; FGF1; AFGF; ECGF; ECGF-beta; ECGFA; ECGFB; FGF-alpha; FGFA; GLIO703; HBGF1; HBGF-1; aFGF; Acidic fibroblast growth factor; Beta-endothelial cell growth factor; Endothelial cell growth factor, alpha; OTTHUMP00000066028; OTTHUMP00000066030; OTTHUMP00000066031; OTTHUMP00000174675; Endothelial cell growth factor, beta; Fibroblast growth factor 1 (acidic); Heparin-binding growth factor 1

Gene ID

9158

mRNA Refseq

NM_004214

Protein Refseq

NP_004205

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MIM	608296
UniProt ID	O43427
Chromosome Location	11q13.1
Function	fibroblast growth factor binding; protein binding
PDB rendering based on 1afc.	