9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

FGF 1 Human

Fibroblast Growth Factor-Acidic Human Recombinant
GRF0053

Product Overview

Name	FGF 1 Human
Description	
Fibroblast Growth Factor-Acidic 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. 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 hep-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	
The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing PBS, pH 7.4.	
Stability	
Lyophilized Fibroblast Growth Factor-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-a 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 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SVGEVYIKST ETGQYLAMDT DGLLYGSQTP NEECLFLERL EENHYNTYIS KKHAEKNWFV GLKKNGSCKR GPRTHYGQKA ILFLPLPVSS D.

Biological Activity

The ED 50 , calculated by the dose-dependant proliferation of mouse BALB/c 3T3 cells is 2,000,000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-acidic in sterile 18MΩ-cm H2O at 4 degrees Celsius at a concentration of 0.1mg-0.25mg per 1ml. Allow sample to sit for 5 min. at 4 degrees, spin to remove precipitant.

Precautions

FGF 1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05230)