Product Data Sheet

Product Name:	aFGF Bovine
Cat. No.:	GP20209
Batch No.:	1

Product Data

Purity	>98%	Source	Bovine Brain.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	HBGF-1; ECGF-beta; FIBP; FGFIBP; FIBP-1; ECGF; ECGFA; GLIO703; FGF1; FGF-a.		
Solubility	It is recommended to reconstitute the lyophilized aFGF in sterile 50mM Na2HPO4 pH-7, and 0.5% albumin. The Recommended concentration in cell culture: 1-20ng/ml.		
Formulation	Each 5µg aFGF were lyophilized from 0.5ml solution containing 1mM sodium phosphate, pH 7 after filtration over a low binding membrane.		

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 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.

Biological Activity

Stimulates growth of bovine capillary endothelial cells by 3-5 fold over 5% calf serum at 10-25ng/ml FGF.

Stability

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Lyophilized aFGF although stable at room temperature for 2 weeks, should be stored desiccated below -18°C . Upon reconstitution aFGF should be stored at 4°C between 2-3 weeks and for future use below -18°C .Please prevent freeze-thaw cycles.

Background

Fibroblast Growth Factor-acidic Bovine (FGF-1) purified from Bovine Brain contains a 17 kDa and a 20 kDa polypeptide chain. The 17 kDa peptide is derived from the 20K peptide by restricted proteolysis. (See Jaye et al?). The FGF acidic is purified by proprietary chromatographic techniques.

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