
Product Data Sheet

Product Name: FGF 1 Human, Sf9
 Cat. No.: GP20205
 Batch No.: 1

Product Data

Purity	>98%	Source	Baculovirus.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HBGF-1; ECGF-beta; FIBP; FGFBP; FIBP-1; ECGF; ECGFA; GLIO703; FGF1; FGF-a.		
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.		
Formulation	The sterile protein solution (1.8mg/ml) contains 20mM Tris HCl pH=7.9, 100mM KCl, 0.2mM DTT and 20% glycerol.		

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 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.

Biological 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 100,000IU/mg.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Fibroblast Growth Factor-1 Human Recombinant (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. The FGF-a is purified by proprietary chromatographic techniques.

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