
Product Data Sheet

Product Name: FGF1 Human, 154 a.a.

Cat. No.: GP26020

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	HBGF-1, ECGF-beta, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA, GLIO703, FGF1, FGF-a.		
Amino Acid Sequence	AEGEITTF TA LTEKFNLPPG NYKKPKLLYC SNGGHFLRIL PDGTVDGTRD RSDQHIQLQL SAESVGEVYI KSTETGQYLA MDTDGLLYGS QTPNEECLFL ERLEENHYNT YISKKHAEKN WfvGLKKNgs CKRGPRTHYG QKAILFLPLP VSSD.		
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-acidic Recombinant in sterile 18MΩ-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4, with 0.5mM DTT, 2mM EDTA, and 5 % Trehalose.		

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.

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

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Biological Activity

The ED50 as determined by a cell proliferation assay using murine balb/c 3T3 cells is < than 0.5 ng/ml, corresponding to a specific activity of > 2.0 ×10⁶ IU/mg in the presence of 10μg/ml Heparin.

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.

Background

Fibroblast Growth Factor-acidic Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 154 amino acids and having a molecular mass of 17.3kDa. The FGF1 is purified by proprietary chromatographic techniques.

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