
Product Data Sheet

Product Name: FGF 2 Human, Plant

Cat. No.: GP20214

Batch No.: 1

Product Data

Purity	>98%	Source	Rice Grain (<i>Oryza Sativa</i>).
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Prostatropin; HBGH-2; HBGF-2; FGF-2; FGF-b; Fibroblast growth factor 2; Basic fibroblast growth factor; Heparin-binding growth factor 2.		
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor Basic in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	FGF-b was lyophilized from a concentrated solution without any additives.		

Introduction

Basic 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, as calculated by the dose-dependent proliferation of Balb/c 3T3 cells expressing FGF receptors is <1 ng/ml, corresponding to a specific activity of >1 x10⁶ Units/mg.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Stability

Lyophilized Fibroblast Growth Factor-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution FGF-b should be stored at 4°C between 2-7 days and for future use 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.

Background

FGF-2 Human Recombinant produced in rice is a single, non-glycosylated polypeptide chain containing 146 amino acids and having a molecular mass of $\sim 17\text{kDa}$. The FGF-b protein is purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA