

★ Storage

Lyophilized FGF-2 although stable at room temperature for 3 weeks, should be stored desiccated below 18°C. Upon reconstitution FGF-2 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.

Contents

- Product Manual
- Basic Fibroblast Growth Factor, Rice Grain (FGF-2)

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

★ 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.

★ Description

Basic Fibroblast Growth Factor (FGF-2) Human Recombinant produced in rice grain is a non-glycosylated monomer, containing 146 amino acids and having a total molecular weight of 17kDa. Basic Fibroblast Growth Factor (FGF-2) is a purified by proprietary chromatographic techniques.

★ Source

Rice Grain (*Oryza Sativa*)

★ Synonyms

Prostatropin, HBGH-2, HBGF-2, FGF-2, FGF-b, Fibroblast growth factor 2, Basic fibroblast growth factor, Heparin-binding growth factor 2.

★ Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

★ Solubility

It is recommended to reconstitute the lyophilized Fibroblast Growth Factor Basic in sterile 18MΩ-cm H₂O at 100µg/ml, which can then be further diluted to other aqueous solutions.

★ Formulation

The FGF-2 was lyophilized from a concentrated solution without any additives.

★ Purity

Greater than 95.0% as determined by:

(a) Analysis by SDS-PAGE

★ Usage

GenDEPOT products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

★ Biological Activity

The ED_{50%} 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.

★ Related Products

Product Name	Cat No
Albumin	A0100
Ceracryo Cell Freezing Media, Xeno Free	C0667
Cellmaxin Plus, 10.5mg/ml	C3319
Ceracol Collagen Type I Solution, 1mg/ml	CA081
Fibronectin, Bovine, Stabilized Solution, 1mg/ml	CA082
Fibronectin, Human, Stabilized Solution, 1mg/ml	CA083
Insulin-Transferrin-Selenium Solution I (1,000X), Animal Free	CA200
Fetal Bovine Serum, Premium, US Origin	F0600
FBS, Mouse Embryonic Stem cell and iPSC Optimized	F0650
FBS OptiGold	F0900
FBS OptiGold, Premium, Heat Inactivated	F0910
Fungizol PS (100X)	F2100
LIF, Mouse Recombinant, 10 MIU/ml	L4501
WATER, 0.1µm Final Filtered, cell culture tested	W0900