

★ 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, HEK (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-b

★ Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

★ Solubility

It is recommended to reconstitute the lyophilized FGF-2 in sterile 1X PBS containing 0.1% endotoxin-free recombinant HSA.

★ Formulation

The FGF-2 was filtered (0.2um) and lyophilized from 0.68mg/ml in 1X PBS.

★ 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 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.