
Product Data Sheet

Product Name: FGF 2 Human, HEK
Cat. No.: GP20213
Batch No.: 1

Product Data

Purity >98% Source HEK.
Physical Appearance solid Shipping Condition Shipped at Room temp.

Synonyms Prostatropin; HBGH-2; HBGF-2; FGF-2; FGF-b.

Amino Acid Sequence PALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRHPDGRVDGVREKSDPHIKLQLQAEERGVSIGVCANRYLAMKEDGRLLASKCVTDECFERLE

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

Formulation The FGF2 was filtered (0.2µm) and lyophilized from 1.26mg/ml in 1xPBS.

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 specific activity was determined by the dose dependent stimulation of proliferation of the Balb/c 3T3 cell line, the ED50 is 0.03ng/ml.

Stability

Lyophilized FGF-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 Thermostable produced in HEK cells is a non-glycosylated monomer, containing 154 amino acids and having a total molecular weight of 17kDa.FGF-2 Thermostable is a protein engineered FGF2 in order to enhance its thermostability without modifying its biological function.The FGF-b is purified by proprietary chromatographic techniques.

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

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