
Product Data Sheet

Product Name: FGF 2 Human, sf9
Cat. No.: GP20211
Batch No.: 1

Product Data

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|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Baculovirus. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Prostatropin; HBGH-2; HBGF-2; FGF-2; FGF-b. | | |
| Amino Acid Sequence | The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Ala-Gly-Ser-Ile. | | |
| Formulation | The sterile protein solution (0.5mg/ml) contains 20mM Tris pH=7.9, 100mM KCl, 1mM DTT and 20% glycerol. | | |

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, calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by 3H-thymidine uptake) is <0.5 ng/ml, corresponding to a specific activity of 2MU/mg.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Fibroblast Growth Factor-2 Human Recombinant (FGF-2) produced in Sf9 insect cells is a single, glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17353 Dalton. The FGF-basic is purified by proprietary chromatographic techniques.

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