
Product Data Sheet

Product Name: FGF-2 Bovine (Escherichia Coli)
 Cat. No.: GP20216
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	HBGH-2; HBGF-2; Prostatropin; FGF-2; FGB-b.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ala-Ala-Gly-Ser.		
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-2 Bovine Recombinant in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The FGF-b Bovine was lyophilized from a concentrated (1mg/ml) sterile solution containing 1% HSA.		

Introduction

FGF-basic is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from AUG and non-AUG (CUG) initiation codons resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. 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, measured in a mitogenic assay using quiescent NR6R-3T3 fibroblasts was

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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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found to be <0.1ng/ml, corresponding to a specific activity of 3×10^6 Units/mg.

Stability

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

Background

FGF-2 Bovine Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 155 amino acids and having a molecular mass of 17250 Dalton. The Fibroblast Growth Factor 2 is purified by proprietary chromatographic techniques.

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