
Product Data Sheet

Product Name: FGF 2 Bovine (Bovine Pituitary)
 Cat. No.: GP20217
 Batch No.: 1

Product Data

Purity	>98%	Source	Bovine Pituitary.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	HBGH-2; HBGF-2; Prostatropin; FGF-2; FGB-b.		
Solubility	It is recommended to reconstitute the lyophilized FGF-2 Bovine in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The FGF-basic Bovine was lyophilized from a concentrated sterile solution containing 50mM Na ₂ HPO ₄ , pH-7.5 & 0.5% 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 recommended concentration in responsive cells is 0.1 to 2ng/ml.

Stability

Lyophilized FGF2 Bovine although stable at room temperature for 3 weeks, should be

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stored desiccated below -18°C . Upon reconstitution FGF-b Bovine 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 purified from bovine pituitary is a single, glycosylated, polypeptide chain having a molecular mass of 16kDa. The basic-FGF is purified by proprietary chromatographic techniques.

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