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32-6346: FGF2 (147), Bovine

Application : Functional Assay
Alternative Name : HBGH-2, HBGF-2, Prostatropin, FGF-2, FGB-b.

Description

Source: Escherichia Coli.
Sterile Filtered White lyophilized (freeze-dried) powder.
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 5 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.
Fibroblast Growth Factor-basic (147 a.a.) Bovine Recombinant produced in E.Coli is a non-glycosylated polypeptide chain containing 147 amino acid and having a molecular mass of approximately 16.5kDa.FGF2 (147) is purified by proprietary chromatographic techniques.

Product Info

Amount :	10 µg / 50 µg
Purification :	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Content :	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-basic (147 a.a.) in sterile PBS not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Storage condition :	Lyophilized FGF2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Fibroblast Growth Factor-basic (147 a.a.) should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Amino Acid :	MPALPEDGGS GAFPPGHFKD PKRLYCKNGG FFLRIHPDGR VDGVREKSDP HIKLQLQAEE RGVVSIKGVC ANRYLAMKED GRLLASKCVT DECFFFERLE SNNYNTYRSR KYSSWYVALK RTGQYKLGPK TGPGQKAILF LPMSAKS.

Application Note

The ED50 as determined by a cell proliferation assay using murine balb/c 3T3 cells is < 0.1 ng/ml, corresponding to a specific activity of > 1.0 Ã□â□□107IU/mg.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.