

FGF-2/FGF-basic, Bovine Pituitary

rev 03/21

CATALOG NO:	P1590-5 5 µg
ALTERNATE NAMES:	FGF2, HBGF-2, Prostatropin, Basic fibroblast growth factor, Heparin-binding growth factor 2
MOL. WT.	16 kDa
SOURCE:	Bovine Pituitary.
PURITY:	95% SDS-PAGE
FORM:	Lyophilized
FORMULATION:	Lyophilized from a concentrated sterile solution containing 50mM Na ₂ HPO ₄ , pH-7.5 & 0.5% HSA.
RECONSTITUTION:	It is recommended to reconstitute the lyophilized FGF-2 Bovine in sterile 18M-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
SPECIFIC ACTIVITY:	The recommended concentration in responsive cells is 0.1 to 2 ng/ml.
STORAGE CONDITIONS:	Store at -20°C. Once reconstituted store at 4°C for short-term (2-7 days) and for future use below -20°C. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid freeze-thaw cycles.
DESCRIPTION:	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.

RELATED PRODUCTS:

- FGF-basic 147, Bovine Recombinant (P1591)
- Growth Hormone Bovine Recombinant (P1593)
- FGF-2/FGF-basic, bovine recombinant (4040)
- Fibroblast Growth Factor-21 Bovine Recombinant (P1592)
- FGF-acidic, Bovine Brain (P1589)
- Betacellulin Bovine Recombinant (P1588)

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