

FGF 2 Bovine

Description: 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.

Catalog #: CYP5-567

For research use only.

Synonyms: HBGH-2, HBGF-2, Prostatropin, FGF-2, FGB-b.

Source: Bovine Pituitary.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The FGF-basic Bovine was lyophilized from a concentrated sterile solution containing 50mM Na₂HPO₄, pH-7.5 & 0.5% HSA.

Stability:

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

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized FGF-2 Bovine in sterile 18M-cm H₂O not less than 100

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.

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