

FGF 2 Human, HEK

Description: FGF-2 Human Recombinant produced in HEK cells is a non-glycosylated monomer, having a total molecular weight of 17kDa. The FGF-b is purified by proprietary chromatographic techniques.

Catalog #: CYP5-092

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

For research use only.

Source: HEK.

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

Purity: Greater than 95% as observed by SDS-PAGE.

Formulation:

The FGF-2 was lyophilized from 1mg/ml in 1xPBS.

Stability:

Lyophilized FGF-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-b should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolabs 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-b in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

Introduction:

Basic fibroblast growth factor is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Three alternatively spliced variants encoding different isoforms have been described. 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 specific activity was determined by the dose-dependent stimulation of the proliferation of the 3T3 cell line and is typically 0.1- 0.5ng/ml.

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