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Human FGF basic / FGF2 - Purified

Alternate names: BFGF, FGFB, Fibroblast growth factor 2 (basic), HBGF-2, HBGF2, Heparin-binding growth factor 2

Catalog No.: AR10036PU-L

Quantity: 1 mg

Concentration: 0.5 mg/ml

Background: 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.

Uniprot ID: P09038

NCBI: NP_001997.5

GeneID: 2247

Species: Human

Source: Insect cells

Format:
State: Liquid sterile filtered solution
Purity: >98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.
Buffer System: 20mM Tris pH 7.9, 100mM KCl, 1mM DTT and 20% Glycerol.

Description: Fibroblast Growth Factor-2 Human Recombinant (FGF-2) produced in Insect Cell is a single, glycosylated, polypeptide chain containing 155 amino acids and having a Molecular Mass of 17353 Dalton.
The FGF-basic is purified by proprietary chromatographic techniques.
AA Sequence:
The sequence of the first five N-terminal amino acids was determined and was found to *be Ala-Ala-Gly-Ser-Ile.*
Biological Activity: The ED50, calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by ^{3}H-thymidine uptake) is 0.5 ng/ml, corresponding to a specific activity of 2 x 10^{6} Units/mg.
Molecular weight: 17353 Da

Add. Information:

Protein content:
Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 0.8511 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a calibrated solution of Fibroblast Growth Factor-b as a Reference Standard.

Storage:

Fibroblast Growth Factor-basic although stable at 2-8°C for 3 weeks, should be stored desiccated 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.
Shelf life: One year from despatch.