

32-1163: Acidic Bovine FGF Native Protein

Alternative Name : HBGF-1, ECGF-beta, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA, GLIO703, FGF1, FGF-a.

Description

Source : Bovine Brain. Fibroblast Growth Factor-acidic Bovine (FGF-1) purified from Bovine Brain contains a 17 kDa and a 20 kDa polypeptide chain. The 17 kDa peptide is derived from the 20K peptide by restricted proteolysis. (See Jaye et al.). The FGF acidic is purified by proprietary chromatographic techniques. Acidic 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.

Product Info

Amount :	5 µg
Purification :	Greater than 90%.
Content :	Each 5µg aFGF were lyophilized from 0.5ml solution containing 1mM sodium phosphate, pH 7 after filtration over a low binding membrane.
Storage condition :	Lyophilized aFGF although stable at room temperature for 2 weeks, should be stored desiccated below -18°C. Upon reconstitution aFGF should be stored at 4°C between 2-3 weeks and for future use below -18°C. Please prevent freeze-thaw cycles.

Application Note

It is recommended to reconstitute the lyophilized aFGF in sterile 50mM Na₂HPO₄ pH-7, and 0.5% albumin. The Recommended concentration in cell culture: 1-20ng/ml. Stimulates growth of bovine capillary endothelial cells by 3-5 fold over 5% calf serum at 10-25ng/ml FGF and 0ug/ml heparin.

