

FGF-acidic, Bovine Brain

rev 03/21

CATALOG NO:	P1589-5 5 µg
ALTERNATE NAMES:	HBGF-1, ECGF-beta, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA, GLIO703, FGF1, FGF-a, Fibroblast Growth Factor Acidic
MOL. WT.	FGF-1 contains a 17 kDa and a 20 kDa polypeptide chain. The 17 kDa peptide is derived from the 20 K peptide by restricted proteolysis.
SOURCE:	Bovine brain
PURITY:	>90%
FORM:	Lyophilized
FORMULATION:	Lyophilized from 0.5 ml solution containing 1 mM sodium phosphate, pH 7 after filtration over a low binding membrane.
RECONSTITUTION:	Reconstitute the lyophilized aFGF in sterile 50 mM Na ₂ HPO ₄ pH-7, and 0.5% albumin. The Recommended concentration in cell culture: 1-20 ng/ml.
SPECIFIC ACTIVITY:	Stimulates growth of bovine capillary endothelial cells by 3-5 fold over 5% calf serum at 10-25 ng/ml FGF.
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:	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 binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro.

RELATED PRODUCTS:

- Betacellulin Bovine Recombinant (P1588)
- Growth Hormone Bovine Recombinant (P1593)
- Fibroblast Growth Factor-21 Bovine Recombinant (P1592)
- FGF-basic 147, Bovine Recombinant (P1591)
- FGF-2/FGF-basic, Bovine Pituitary (P1590)

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