Overview

Synonyms	HBGF-1, ECGF-beta, FIBP, FGFIBP, FIBP-1, ECGF, ECGFA, GLIO703, FGF1, FGF-a
Description	**Fibroblast Growth Factor- acidic (FGF-acidic)**, also known as FGF-1 and endothelial cell growth factor, is a member of the FGF family which currently contain 23 members. FGF acidic and basic, unlike the other members of the family, lack signal peptides and are apparently secreted by mechanisms other than the classical protein secretion pathway. FGF acidic has been detected in large amounts in the brain. Other cells known to express FGF acidic include hepatocytes, vascular smooth muscle cells, CNS neurons, skeletal muscle cells, fibroblasts, keratinocytes, endothelial cells, intestinal columnar epithelium cells and pituitary basophils and acidophils. As with other FGF's, FGF acidic exhibits considerable species cross reactivity. FGF acidic and FGF basic stimulate the proliferation of all cells of mesodermal origin, and many cells of neuroectodermal, ectodermal and endodermal origin. Recombinant human **Fibroblast Growth Factor- acidic (rhFGF-acidic)**produced in *E. coli* is a single non-glycosylated polypeptide chain containing 140 amino acids. A fully biologically active molecule, rhFGF-acidic has a molecular mass of 15.8 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Human
Source	*E. coli*
Biological Activity	ED_{50}<0.3ng/ml, measured by a cell proliferation assay of 3T3 Cells, corresponding to a specific activity of >3.3 × 10^6 IU/mg in the presence of 10 µg/ml of heparin.
Sequence	FNLPPGNYKK PKLLYCSNGG HFLRILPDGT VDGTRDRSDQ HIQLQLSAES VGEVYIKSTE TGQYLAMDTD GLLYGSQTPN EECLFLERLE ENHYNTYISK KHAEKNWFVG LKKNGSCKRG PRTHYGQKAI LFLPLPVSSD

Properties

Measured Molecular Weight	15.8 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH_2O or PBS at 100 µg/ml.
Endotoxin Level	<0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant **human Fibroblast Growth Factor- acidic (rhFGF-acidic)** remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhFGF-acidic should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.

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