

Overview

Synonyms	Fibroblast Growth Factor-acidic, FGF-1, HBGF-1, ECGF-beta
Description	<p>Fibroblast Growth Factor- acidic (FGF-acidic) is a mitogen targeting at the endothelial cells, and belongs to the heparin binding FGF family, which contains 22 members. FGF-acidic binds to the receptor family FGFR1-4 in vivo with the assistance of heparin. However, along with FGF -basic, FGF-acidic lacks the signal peptide segment, and thus is not secreted via endoplasmic reticulum (ER) and Golgi bodies. Studies have shown that FGF-acidic is highly regulated, and it is a direct angiogenesis factor. If unregulated, angiogenesis could contribute to several diseases including arthritis, diabetes, ocular neovascularization, and especially tumors. Therefore, FGF-acidic is treated as a potential oncogene, and its overexpression is correlated tightly with several cancers.</p> <p>Recombinant mouse Fibroblast Growth Factor- acidic (rmFGF-acidic) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 140 amino acids. A fully biologically active molecule, rmFGF-acidic has a molecular mass of 15.8 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
Accession No	P61148
Species	Mouse
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 0.4 ng/mL, measured by a cell proliferation assay using 3T3 cells in the presence of 10 µg/mL heparin, corresponding to a specific activity of > 2.5× 10 ⁶ units/mg.
Sequence	<p>FNLPLGNYKK PKLLYCSNGG HFLRILPDGT VDGTRDRSDQ</p> <p>HIQLQLSAES AGEVYIKGTE TGQYLAMDTE GLLYGSQTPN</p> <p>EECLFLERLE ENHYNTYTSK KHAENWFVG LKKNCSCKRG</p> <p>PRTHYGQKAI LFLPLPVSSD</p>

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 ₂ O at 100 µg/mL.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant mouse Fibroblast Growth Factor- acidic (rmFGF-acidic) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmFGF-acidic should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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