

Overview

Synonyms	Fibroblast Growth Factor-basic, FGF-2, HBGF-2, Prostatropin; BFGF; FGFB;
Description	Fibroblast Growth Factor-basic (FGF-basic) , also known as HBGF-2, is a non-glycosylated heparin-binding growth factor that belongs to the FGF family. FGF-basic is present in basement membranes and in the subendothelial extracellular matrix of blood vessels. FGF-basic signals through FGFR1, 2, 3 and 4 that plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Recombinant mouse Fibroblast Growth Factor-basic (rmFGF-basic) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 146 amino acids. A fully biologically active molecule, rmFGF-basic has a molecular mass of 16.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Accession No	P15655
Species	Mouse
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ < 0.5 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 2.0× 10 ⁶ units/mg.
Sequence	MPALPEDGGA AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH VKLQLQAEER GVVSIGKVCA NRYLAMKEDG RLLASKCVTE ECFFFERLES NNYNTYRSRK YSSWYVALKR TGQYKLGSKT GPGQKAILFL PMSAKS

Properties

Measured Molecular Weight	16.4 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-basic (rmFGF-basic) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmFGF-basic 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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