

Active Recombinant Mouse Fgf2 Protein (146 aa)

Cat. No. Fgf2-398F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Fibroblast Growth Factor-basic (rmFGF-basic) produced in E. coli 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.
Species	Mouse
Source	E.coli
ProteinLength	146
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 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.
Molecular Mass	16.4 kDa, observed by reducing SDS-PAGE.

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AA Sequence	MPALPEDGGAAFPFGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHVKLQL QAEERGVSISIKGVCANRYLAMKEDGRLLASKCVTEECFFFERLESNNYNTYRSRKY SSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAKS
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant mouse Fibroblast Growth Factor-basic (rmFGF-basic) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmFGF-basic should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	Fgf2 fibroblast growth factor 2 [<i>Mus musculus</i>]
Official Symbol	Fgf2
Synonyms	FGF2; fibroblast growth factor 2; HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2; Fgfb; bFGF; Fgf-2;
Gene ID	14173
mRNA Refseq	NM_008006
Protein Refseq	NP_032032

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