DATASHEET
Version 20181206

FGF-basic, Mouse

Cat. No.: Z03016-10

Size: 10.0 ug

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 *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 at GenScript.

Amino Acid Sequence:

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00001 MPALPEDGGA AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV
00041 DGVREKSDPH VKLQLQAEER GVVSIKGVCA NRYLAMKEDG
00081 RLLASKCVTE ECFFFERLES NNYNTYRSRK YSSWYVALKR
00121 TGQYKLGSKT GPGQKAILFL PMSAKS
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Source: *E. coli*

Species: Mouse

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.

Molecular Weight: 16.4 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O at 100 µg/ml.

Purity: > 95% by SDS-PAGE and HPLC analyses.

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.

GenScript USA, Inc.
860 Centennial Ave. Piscataway, NJ 08854
Tel: 1-877-436-7274; 1-732-885-9188