

DATASHEET
Version 20181206**FGF-18, Human****Cat. No.:** Z03011-10**Size:** 10.0 ug**Synonyms:** Fibroblast Growth Factor-18, zFGF5, FGF1**Description:**

Fibroblast Growth Factor-18 (FGF-18) is a heparin-binding growth factor that is a member of the FGF family. FGF-18 signals through FGFR 1c, 2c, 3c, and 4. FGF-18 plays an important role in the regulation of cell proliferation, cell differentiation and cell migration. FGF-18 is required for normal ossification and bone development. It can also stimulate hepatic and intestinal proliferation.

Recombinant human Fibroblast Growth Factor-18 (rhFGF-18) produced in *E. coli* is a single non-glycosylated polypeptide chain containing 174 amino acids. A fully biologically active molecule, rhFGF-18 has a molecular mass of 20.3 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 MAEENVDFRI HVENQTRARD DVSRLQLRLY QLYSRTSGKH
00041 IQVLGRRISA RGEDGDKYAQ LLVETDTFGS QVRIKGKETE
00081 FYLCMNRKKG LVGKPDGTSK ECVFIEKVLE NNYTALMSAK
00121 YSGWYVGFTK KGRPRKGPKT RENQQDVHFM KRYPKGQPEL
00161 QKPFKYTTVT KRSR
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Source: *E. coli***Species:** Human**Biological Activity:** ED₅₀ < 10 ng/ml, measured by a cell proliferation assay using 3T3 Cells, corresponding to a specific activity of > 1.0 × 10⁵ units/mg.**Molecular Weight:** 20.3 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O 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 human Fibroblast Growth Factor-18 (rhFGF-18) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhFGF-18 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.