

DATASHEET
Version 20181206**FGF-17, Human****Cat. No.:** Z03339-1**Size:** 1.0 mg**Synonyms:** Fibroblast Growth Factor-17, FGFH**Description:**

Fibroblast Growth Factor-17 (FGF-17) is a heparin binding growth factor that is a member of the FGF family. Proteins of this family play multiple roles in biological functions, including angiogenesis, mitogenesis, cell differentiation and wound repair. FGF-17 plays an important role in organizing and inducing specific patterning at the midbrain/hindbrain junction. FGF-17 is also expressed in the hindgut, parts of the developing skeleton, tail bud, major arteries, and heart. FGF-17 signals through hFGFR1c, 2c, 3c, and 4. FGF-17 signals induce patterning of the embryonic brain.

Recombinant Human FGF-17 produced in *E. coli* is a single non-glycosylated polypeptide chain containing 195 amino acids. A fully biologically active molecule rhFGF-17 has a molecular mass of 22.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 MTQGENHPSP NFNQYVRDQG AMTDQLSRRQ IREYQLYSRT
00041 SGKHVQVTGR RISATAEDGN KFAKLIVETD TFGSRVRIKG
00081 AESEKYICMN KRGLIGKPS GKSKDCVFTE IVLENNYTAF
00121 QNARHEGWFM AFTRQGRPRQ ASRSRQNRQ AHFIKRLYQG
00161 QLPPFNHAEK QKQFEFVGS PRRTRKTRR PQPLT
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Source: *E. coli***Biological Activity:** ED₅₀ < 0.5 ng/mL, measured by the cell proliferation assay using Balb/c3T3 cells, corresponding to a specific activity of >2 × 10⁶ units/mg.**Molecular Weight:** 22.6 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant Human Fibroblast Growth Factor-17 (FGF-17) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution Human FGF-17 should be stable up to 1 week at 4°C or up to 3 months at -20°C.