DATASHEET
Version 20181206

FGF-17, Human

Cat. No.: Z03339-50

Size: 50.0 ug

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 thedeveloping 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 KRGKLIGKPS GKSKDCVFTE IVLENNYTAF
00121 QNARHEGWFM AFTRQGRPRQ ASRSRQNQRE AHFIKRLYQG
00161 QLPFPNHAEK QKQFEFVGSA PTRRTKRTRR PQPLT
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Source: *E. coli*

Biological Activity: ED_{50} < 0.5 ng/mL, measured by the cell proliferation assay using Balb/c3T3 cells, corresponding to a specific activity of >2 × 10^6 units/mg.

Molecular Weight: 22.6 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O 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) remainsst able 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.

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