



# Recombinant Human FGF-17

20190925BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-024S</b>
Size:	5 µg
Lot. No.:	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	8822
<b>Synonyms:</b>	FGF17; FGF-13; FGFH

FGF-17 is a heparin binding growth factor that is a member of the FGF family. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. FGF-17 signals through the FGFR 1c, 2c, 3c, and 4. FGF-17 signals induction and patterning of embryonic brain. Recombinant human FGF-17 is a 22.7 kDa protein consisting of 195 amino acid residues.

## Sequence

```
MTQGENHPSP NFNQYVRDQG AMTDQLSRRQ IREYQLYSRT  
SGKHVQVTGR RISATAEDGN KFAKLIVETD TFGSRVRIKG  
AESEKYICMN KRKGLIGKPS GSKKDCVFTE IVLENNYTAF  
QNAHEGWFM AFTRQGRPRQ ASRSRQHQRE AHFIKRLYQG  
QLPFPNHAEK QKQFEFVGSA PTRRTKRTRR PQPLT
```

## Database References

<b>Protein RefSeq:</b>	NP_003858
<b>Uniprot ID:</b>	O60258
<b>mRNA RefSeq:</b>	NM_003867

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 95% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	Lyophilized in 10mM Sodiumphosphate pH 8.0 + 50mM NaCl
<b>Length (aa):</b>	195
<b>MW:</b>	22.7 kDa

**Stability:** The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

**Reconstitution:** Centrifuge the vial prior to opening. Reconstitute in 5mM Tris, pH 8.0 to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



**AVOID REPEATED FREEZE AND THAW CYCLES!**

**Biological Activity:** The ED<sub>50</sub> as determined by a cell proliferation assay using Balb/c 3T3 cells is ≤ 10 ng/ml (≥ 1 x 10<sup>5</sup> units/mg).