

## Product datasheet for **TP728201L**

### Recombinant FGF-21 (Fibroblast growth factor-21), Human

#### Product data:

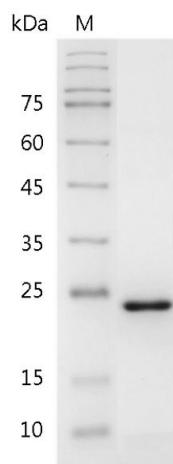
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|--|---|
| <b>Product Type:</b>                         | Recombinant Proteins  |
| <b>Description:</b>                          | Recombinant FGF-21 (Fibroblast growth factor-21), Human   |
| <b>Species:</b>                              | Human   |
| <b>Expression Host:</b>                      | E. coli   |
| <b>Expression cDNA Clone or AA Sequence:</b> | MHPIPDSSPLLQFGGQVRQRYLYTDDAQQTEAHLEIREDGTVGGAADQSPESLLQLKALKPGVIQILGVKT SRFLCQRPDGALYGSLHFDPEACSFRELLLEDGYNVYQSEAHGLPLHLPGNKSPHRDPAPRGPAPRFLPLP GLPPALPEPPGILAPQPPDVGSSDPLSMVGPSQGRSPSYAS with polyhistidine tag at the C-terminus.   |
| <b>Tag:</b>                                  | His Tag (C-term)  |
| <b>Predicted MW:</b>                         | The protein has a calculated MW of 20.35 kDa. The protein migrates as 25 kDa under reducing condition (SDS-PAGE analysis).  |
| <b>Purity:</b>                               | >98% as determined by SDS-PAGE.   |
| <b>Buffer:</b>                               | The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0.  |
| <b>Bioactivity:</b>                          | Measure by its ability to induce proliferation in BaF3 cells transfected with human FGFR11c. The ED <sub>50</sub> for this effect is <0.4 µg/mL.  |
| <b>Endotoxin:</b>                            | <0.1 EU per 1 µg of the protein by the LAL method.  |
| <b>Reconstitution Method:</b>                | Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein. |
| <b>Applications:</b>                         | Cell culture  |
| <b>Storage:</b>                              | Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.                        |
| <b>UniProt ID:</b>                           | <a href="#">Q9NSA1</a>  |
| <b>Synonyms:</b>                             | FGFL  |



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**Summary:**

Fibroblast Growth Factors-21 (FGF-21) is a 22.3 kDa member of the fibroblast Growth Factors with 209 amino acid residues. FGF-21 is expressed from liver and cardiomyocytes. FGF-21 is a key protein that regulates important metabolic pathways, and modulates cellular function, metabolism, and senescence. It can stimulate glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1 /GLUT1 expression.

**Product images:**

SDS- PAGE analysis of recombinant human FGF-21