

Product datasheet for **TP728197**

Recombinant FGF-18 (Fibroblast growth factor-18), Human

Product data:

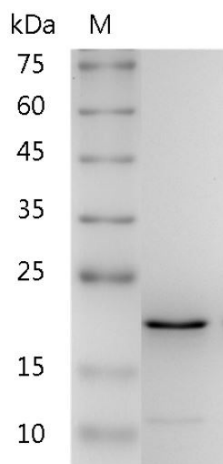
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant FGF-18 (Fibroblast growth factor-18), Human |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MAEENVDFRIHVENQTRARDDVSRKQLRLYLQYSRTSGKHIQVLGRRISARGEDGDKYAQLLVETDTFGSQVRIKGETEFYLCMNRKGLVKGPDGTSKECVFIEKVLNENYALMSAKYSGWYVGFKKGRPRKGPKTRE NQQDVHFMKRYPKGQPELQKPFKYTTVTKRSR with polyhistidine tag at the C-terminus. |
| Tag: | His Tag (C-term) |
| Predicted MW: | The protein has a calculated MW of 21.11 kDa. The protein migrates as 20 kDa under reducing condition (SDS-PAGE analysis). |
| Purity: | >98% as determined by SDS-PAGE. |
| Buffer: | The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0. |
| Bioactivity: | Measure by its ability to induce 3T3 cells proliferation. The ED ₅₀ for this effect is 1.3-2.0 ng/mL. The specific activity of recombinant human FGF-18 is > 5 x 10 ⁵ IU/mg. |
| Endotoxin: | <0.1 EU per 1 µg of the protein by the LAL method. |
| Reconstitution Method: | Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ 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. |
| Applications: | Cell culture |
| Storage: | 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. |
| UniProt ID: | O76093 |
| Synonyms: | FGFI, zFGF5 |



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Summary:

Fibroblast Growth Factors-18 (FGF-18) is a 24 kDa member of the fibroblast Growth Factors with 207 amino acid residues. FGF-18 is mainly expressed from glandular and luminal cells, cardiomyocytes, breast myoepithelial cells and endometrial ciliated cells. FGF-18 involved cell proliferation, cell differentiation and cell migration. FGF-18 is an important role in skeletal growth and development, stimulates hepatic and intestinal proliferation.

Product images:

SDS- PAGE analysis of recombinant human FGF-18