

Catalog No.: RP01827 **Recombinant**

Species	Gene ID	Swiss Prot
Human	8817	O76093

C-His

ZFGF5: FGF-18 $\square$ FGF18

Fibroblast growth factor 18 (FGF18) is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth, and invasion. It has been shown *in vitro* that FGF18 is able to induce neurite outgrowth in PC12 cells. Studies of the similar proteins in mouse and chick suggested that this protein is a pleiotropic growth factor that stimulates proliferation in a number of tissues, most notably the liver and small intestine. Experiment data identified FGF18 as a selective ligand for FGFR3 in limb bud mesenchymal cells, which suppressed proliferation and promoted their differentiation and production of cartilage matrix. FGF18 appears to regulate cell proliferation and differentiation positively in osteogenesis and negatively in chondrogenesis.

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE

Calculated MW	Observed MW
21.87 kDa	30-35 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Recombinant Human FGF-18 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu28-Ala207) of human FGF-18 (Accession #NP_003853.1) fused with a 6xHis tag at the C-terminus.

Measured by its binding ability in a functional ELISA. Immobilized Human FGF18(Catalog: RP01827) at 10 µg/mL (100 µL/well) can bind Human FGFR4 (Catalog: RP00130) with a linear range of 27.4-393.3 ng/mL.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

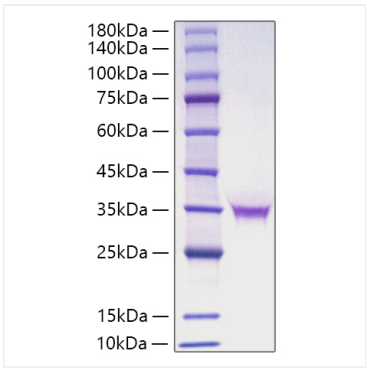
For your safety and health, please wear a lab coat and disposable gloves for handling.

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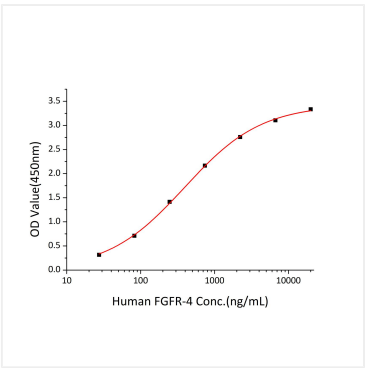
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Validation Data



Recombinant Human FGF-18 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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