

Catalog No.: RP03510 **Recombinant**

Species	Gene ID	Swiss Prot
Mouse	14172	O89101

C-His

Fibroblast growth factor
18;FGF-18;zFGF5;Fgf18

Source HEK293 Cells	Purification ≥ 95 % as determined by SDS- PAGE
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Calculated MW	Observed MW
22.5 kDa	30-35 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from sterile 20 mM Mes, 500 mM NaCl, 1 mM EDTA, pH 6.6. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Reconstitution

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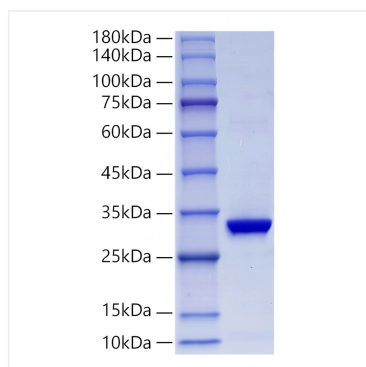
Recombinant Mouse FGF-18 Protein is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor 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. FGF18 appears to regulate cell proliferation and differentiation positively in osteogenesis and negatively in chondrogenesis.

Recombinant Mouse FGF-18 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met 1-Gly 207) of Mouse FGF-18 (Accession #NP_032031.1) fused with His at the C-terminus.

1. Measured by its binding ability in a functional ELISA. 2. Immobilized mouse FGF18 at 10 µg/mL (100 µl/well) can bind Rat FGFR4, The EC50 of Rat FGFR4 is 0.44 µg/mL.

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.

Validation Data



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