

## Recombinant Mouse Fgf21 protein

**Cat. No.** Fgf21-563M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Fgf21 protein was expressed in Escherichia coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	182
<b>Description</b>	Fibroblast growth factor-21 (FGF-21) belongs to the large FGF family and it is specifically induced by HMGCS2 activity. In mice, brown adipose tissue becomes a source of systemic FGF21 after cold exposure. FGF-21 stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression (but not SLC2A4/GLUT4 expression) and the activity depends on the presence of KLB. FGF-21, in the presence of betaKlotho as a protein cofactor, signals through the FGFR 1c and 4 receptors. Recombinant murine FGF-21 contains 182 amino acids residues and show limited binding to heparin. In addition, Murine FGF-21 respectively shows 81 % and 92 % a.a. identity to human and rat FGF-21, and it show activity on human and rat cells.
<b>Form</b>	Lyophilized from a 0.2µm filtered concentrated solution in 3 × PBS, pH 7.4.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The ED50 as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 µg/ml, corresponding to a specific activity of > 2.0 × 10 <sup>3</sup> IU/mg in the presence of 5 g/ml of rMuKlotho-

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	$\beta$ and 10 $\mu\text{g/ml}$ of heparin.
<b>Molecular Mass</b>	Approximately 19.9 kDa, a single non-glycosylated polypeptide chain containing 182 amino acids.
<b>AA Sequence</b>	AYPIPDSSPLLQFGGQVRQRYLYTDDDQDTEAHLEIREDGTVVGAHRSPESLLELK ALKPGVIQILGVKASRFLCQQPDGALYGSPHFDPEACSFRELLLEDGYNVYQSEAHG LPLRLPQKDSPNQDATSWGPVRFPLPMPGLLHEPQDQAGFLPPEPPDVGSSDPLSM VEPLQGRSPSYAS
<b>Endotoxin</b>	Less than 1 EU/g of rMuFGF-21 as determined by LAL method.
<b>Purity</b>	>97% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20$ centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

**Gene Name** [Fgf21](#)

**Official Symbol** [Fgf21](#)

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**Synonyms** FGF21; fibroblast growth factor 21; FGF-21;

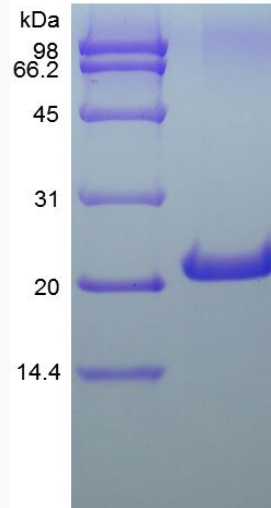
**Gene ID** 56636

**mRNA Refseq** NM\_020013

**Protein Refseq** NP\_064397

**UniProt ID** Q9JJN1

**SDS-PAGE of Fgf21-563M**



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