

Recombinant Mouse Fgf21 protein

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

SPECIFICATION

Product Overview	Recombinant Mouse Fgf21 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	182
Description	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.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 3 × PBS, pH 7.4.
Bio-activity	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 $> 2.0 \times 10^3$ IU/mg in the presence of 5 g/ml of rMuKlotho-

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	β and 10 μ g/ml of heparin.
Molecular Mass	Approximately 19.9 kDa, a single non-glycosylated polypeptide chain containing 182 amino acids.
AA Sequence	AYPIPDSSPLLQFGGQVRQRYLYTDDDQDTEAHLEIREDGTVVGAAHRSPESLLELK ALKPGVIQILGVKASRFLCQQPDGALYGSPHFDPEACSFRELLLEDGYNVYQSEAHG LPLRLPQKDSPNQDATSWGPVRFLPMPGLLHEPQDQAGFLPPEPPDVGSSDPLSM VEPLQGRSPSYAS
Endotoxin	Less than 1 EU/g of rMuFGF-21 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	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.
Reconstitution	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**

