

Recombinant Mouse Fibroblast Growth Factor 21

Cat. No. Fgf21-109M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Fibroblast Growth Factor-21 produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 183 amino acids including N-terminal Methionin and having a molecular mass of 20.1 kDa. The amino acid sequence of the recombinant mouse FGF21 is 100% homologous to the amino acid sequence of the Mouse FGF21 without signal sequence. The FGF-21 is purified by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
Description	FGF-21 is preferentially expressed in liver, but an exact knowledge of FGF-21 bioactivity and its mode of action have been lacking to date. FGF-21 is a potent activator of glucose uptake on adipocytes, protects animals from diet-induced obesity when overexpressed in transgenic mice, and lowers blood glucose and triglyceride levels when therapeutically administered to diabetic rodents.
Amino Acid Sequence	MAYPIPDSSPLLQ FGGQVRQRYL YTDDDQDTEA HLEIREDGTV VGAAHRSPES LLELKALKPG VIQILGVKAS RFLCQQPDGA LYGSPHFDPE ACSFRELLLE DGYNVYQSEA HGLPLRLPQK DSPNQDATSW GPVRFLPMPG LLHEPQQDQAG FLPPEPPDVG SSDPLSMVEP LQGRSPSYAS
Physical Appearance	Sterile Filtered white lyophilized powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by

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	SDS-PAGE.
Formulation	Filtered (0.4 μm) and lyophilized from 0.5 mg/ml in 20 mM TRIS, 20 mM NaCl, pH 7.5.
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-21 Mouse Recombinant in sterile 18 MΩ-cm H ₂ O not less than 100 μg/ml, which can then be further diluted to other aqueous solutions.
Stability	Recombinant Mouse Lyophilized FGF-21 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Fibroblast Growth Factor 21 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	Fgf21 fibroblast growth factor 21 [Mus musculus]
Synonyms	Fgf21; fibroblast growth factor 21
Gene ID	56636
mRNA Refseq	NM_020013
Protein Refseq	NP_064397
UniProt ID	Q9JJN1
Chromosome Location	7 B2

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Pathway	MAPK signaling pathway; Melanoma; Pathways in cancer; Regulation of actin cytoskeleton
Function	growth factor activity

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