

Recombinant Mouse FGF-21 Protein

Catalog No.: RP01715 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	56636	Q9JJN1

Tags

C-6His

Synonyms

Fgf8c;FGF21

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
20.72 kDa	20-25 kDa

Endotoxin
< 0.1EU/μg

Formulation

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

Reconstitution

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.

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Background

Fibroblast growth factor 21 (FGF21), which stimulates glucose uptake in differentiated adipocytes via the induction of glucose transporter SLC2A1/GLUT1 expression. FGF21 has been shown to protect animals from diet-induced obesity when overexpressed in transgenic mice. It also lowers blood glucose and triglyceride levels when administered to diabetic rodents, suggesting it may exhibit the therapeutic characteristics necessary for effective treatment of diabetes. Treatment of animals with FGF21 results in increased energy expenditure, fat utilisation and lipid excretion. FGF21 is most abundantly expressed in the liver, and also expressed in the thymus at lower levels.

Basic Information

Description

Recombinant Mouse FGF-21 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Tyr30-Ser210) of mouse FGF-21 (Accession #NP_064397.1.) fused with and a 6xHis tag at the C-terminus.

Bio-Activity

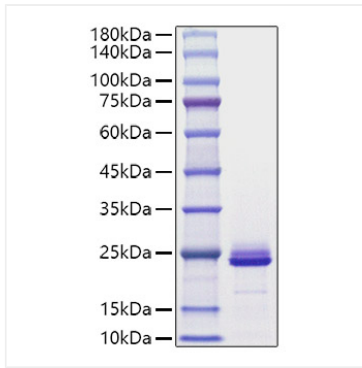
Storage

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-21 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-25 kDa.