

RMCM097

Recombinant FGF-21 (Fibroblast growth factor-21), Mouse
, AF



5ug;20ug;100ug;500ug;

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Synonym/Alternative name(s) : Fgf8c

Activity:

Measure by its ability to induce proliferation in NIH3T3 mouse embryonic fibroblast cells in the presence of mouse Klotho beta and heparin. The ED50 for this effect is < 2 µg/mL.

Protein Description:

FGF-21 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. FGF-21 is produced by hepatocytes in response to free fatty acid (FFA) stimulation of a PPARα/RXR dimeric complex. This situation occurs clinically during starvation, or following the ingestion of a high-fat/low-carbohydrate diet. Upon FGF-21 secretion, white adipose tissue is induced to release FFAs from triglyceride stores. Once FFAs reach hepatocytes, they are oxidized and reduced to acetyl-CoA.

Protein Accession : Q9JJN1.1

Gene ID : 56636

Expression Sequence:

AYPIPDSSPLLQFGGQVRQRYLYTDDDDQDTEAHLEIREDGTVVGAHRSPESLLELKALKPGVIQILGVKASRFLCQQPDGALYGSPHFD
PEACSFRELLLEDGYNVYQSEAHGLPLRLPQKDSNPQDATSWGPVRFPLPMPGLLHEPQDQAGFLPPEPPDVGSSDPLSMVEPLQGRSP
SYAS with polyhistidine tag at the N-terminus

Fusion tag : His-tag?at?the?N-terminus

Species : Mouse

Reactivity : Mouse

Expression Host : Escherichia coli

Source : E. coli

Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

Endotoxin level:

<0.1 EU per 1 µg of the protein by the LAL method.

Calculated Molecular Weight : 20.76 kDa

Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice

Stability and Storage:

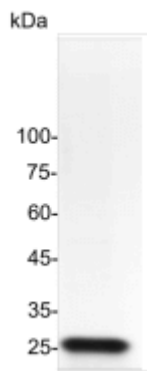
Lyophilized protein should be stored at -20°C for 1 year.

Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of recombinant mouse FGF-21