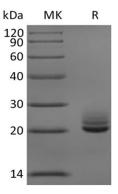
Recombinant Mouse Fibroblast Growth Factor 21/FGF-21 (C-6His)

Catalog Number: PKSM041418

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description	
Species	Mouse
Source	HEK293 Cells-derived Mouse FGF-21 protein Ala29-Ser210, with an C-terminal His
Calculated MW	20.8 kDa
Observed MW	20-25 kDa
Accession	Q9JJN1
Bio-activity	Not validated for activity
Properties	
Purity	>95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80
	°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of
	reconstituted samples are stable at $< -20^{\circ}$ C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 100mM NaCl, pH 9.0.
	Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants
	before lyophilization.
	Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

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Fibroblast Growth Factor 21 (FGF21) is a growth factor that belongs to the FGF family. FGF family proteins play a central role during prenatal development and postnatal growth and regeneration of mamy tissues, by promoting cellular proliferation and differentiation. FGF21 is a potent activator of glucose uptake on adipocytes, protects animal from diet-induced obesity when overexpression in transgenic mice, and lower blood glucose and triglyceride levels when therapeutically adiministered to diabetic redents. FGF21 is produced by hepatocytes in reponse to free fatty acid stimulation of a PPARa/RXR dimeric complex. This situation occurs clinically during starvation, or following the ingestion of a highly-fat/low-carbohydrate diet.Upon FGF21 secretion, white adipose tissue is induced to acetyl-CoA. The acetyl-CoA is recombined into 4-carbon ketone bodies, release, and transported to peripheral tissue for TCA processing and energy generation.