FGF-21/FGFL, Human, Recombinant

Cat. No. : PCK132

General Information

Synonyms	Fibroblast Growth Factor 21;FGF-21;FGF21
Species	Human
Expression host	E.coli
Sequence	His29-Ser209
Accession	AAH18404.1
Tag	6His tag at the N-terminus
Mol mass	21.69 KDa
Expiration date	12 months

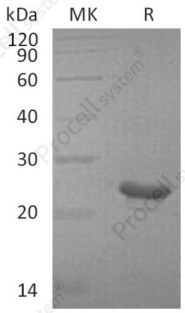
Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 2 mM EDTA, pH 9.0.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Background

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 ingestionof a highly-fat/low-carbohydrate diet.Upon FGF21 secretion, white adipose tissue is induced to release free fatty acids from triglyceride stores. Once free fatty acid reach hepatocytes, they are oxidized and reduced 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.

SDS-PAGE



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