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Product datasheet for TP726646

Fgf21 Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse FGF-21 (C-6His)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Ala29-Ser210
Tag:	C-6His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM Tris-HCl, 100mM NaCl, pH 9.0.
Note:	Recombinant Mouse Fibroblast Growth Factor 21 is produced by our Mammalian expression system and the target gene encoding Ala29-Ser210 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	56636
UniProt ID:	Q9JJN1
Synonyms:	Fibroblast Growth Factor 21; FGF-21; FGF21
Summary:	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.

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