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Product datasheet for TP727670

Cynomolgus Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Cynomolgus Fibroblast Growth Factor 21/FGF-21 (C-6His)
Species:	Cynomolgus
Expression cDNA Clone or AA Sequence:	His29-Ser209
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Cynomolgus Fibroblast Growth Factor 21 is produced by our Mammalian expression system and the target gene encoding His29-Ser209 is expressed with a 6His tag at the C-terminus.
Stability:	12 months from date of despatch
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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