

The product cannot be used for diagnostic nor any medical purpose.

FGF21

ELISA

#27997 Human FGF21 Assay Kit - IBL

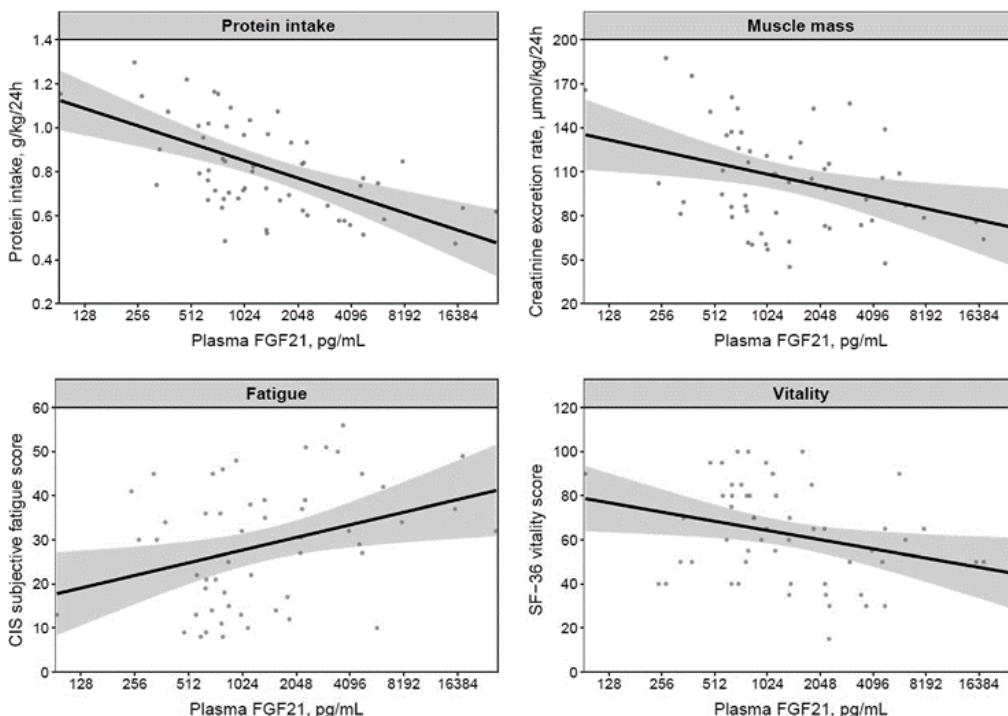
- * Sample types : Human
- * Measuring Samples : Serum, EDTA-plasma and Supernatant
- * Measurement Range : 31.3 – 2,000 pg/mL

The role of FGF21 is thought to be an adaptation to hunger. In the living body, lipid metabolism in the liver is increased in response to hunger, and when ketone bodies are produced, FGF21 is released, and insulin sensitivity in the whole body is increased. In addition to the Ketogenic diet (low-carbohydrate, high-protein diet), it has been clarified that blood FGF21 increases due to cold stimulation.

Among existing drugs, it has been reported that thiazolidine-based drugs increase the expression of FGF21 and β Klotho and increase FGF21 sensitivity, furthermore, it has been considered the possibility that part of the effects of antidiabetic drugs is mediated by the FGF21 pathway. Mutants of FGF21 and FGF21 agonists are being applied to clinical research, and they are expected to be promising tools for treatment of metabolic diseases in the future.

Association between FGF21 and PEW in hemodialysis patients

Protein Energy Wasting (PEW), which is associated with a decrease in skeletal muscle, blood protein, and body fat in chronic kidney disease, is also attracting attention in relation to life prognosis. Recently, blood FGF21 was reported to reflect PEW in dialysis patients and was associated with low protein intake, skeletal muscle mass, decreased vitality, and fatigue. (See Reference)



Clinical research case (left fig.)
Relationship between plasma FGF21 concentration in 59 dialysis patients (age 65 ± 15 years, 63% male) and protein intake, skeletal muscle mass, fatigue, and vitality assessment.

【 Reference 】
[Fibroblast growth factor 21 and protein energy wasting in hemodialysis patients. Adrian Post et al. Clin Nutr. 2021 Feb 3:S0261-5614\(21\)00063-7](#)

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