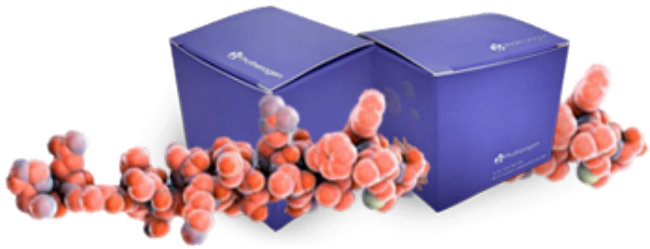
Protheragen
Obesity



Rat fibroblast growth factor 21 (FGF21) ELISA kit (12.5-200 pg/mL)

Cat. No.:	0126WXX-06
Assay Type:	Quantitative competitive ELISA
Target Species:	Rat
Assay Target:	FGF21
Size:	24T; 48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Rat fibroblast growth factor 21 (FGF21) ELISA kit (12.5-200 pg/mL) is an ELISA-b ased *in vitro* research tool designed specifically for the quantitative de tection of FGF21 in rat samples with a range of 12.5-200 pg/mL and a minimum det ectable dose (sensitivity) of 4.9 pg/mL. The kit is highly sensitive and easy to use.
Assay Principle	This assay utilizes the competitive inhibition enzyme immunoassay technique. A m onoclonal antibody specific to FGF21 is pre-coated onto a microplate. A competit ive reaction is initiated between biotin-labeled FGF21 and unlabeled FGF21 (from standards or samples) for the limited binding sites on the pre-coated antibody. After incubation and washing, avidin-HRP is added. The amount of bound conjugat e and the resulting color intensity are inversely proportional to the concentrat ion of FGF21 in the sample.
Background	FGF21 is an endocrine hormone secreted by multiple tissues, particularly the liv er. It belongs to the fibroblast growth factor family but functions differently from traditional growth factors. FGF21 is primarily induced during stress or fas ting states, acting as a crucial metabolic regulator that influences the body's energy balance, glucose homeostasis, and fatty acid metabolism. FGF21 plays a pi vital role in the onset, progression, and treatment of obesity. Its analogues ha ve emerged as novel therapeutic agents and are being investigated for their pote ntial in anti-obesity interventions.
Synonyms	Fgf21; FGF-21

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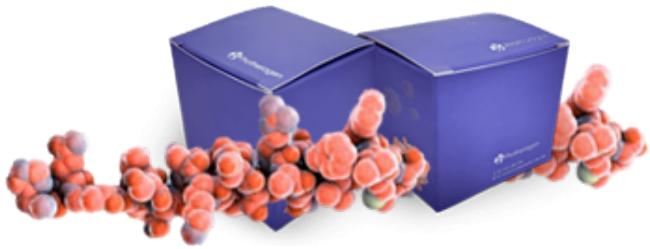

Formula Weight	22,300 Da
Applications	Rat fibroblast growth factor 21 (FGF21) ELISA kit (12.5-200 pg/mL) is used to qu antify FGF21 in serum, plasma, tissue homogenates, cell lysates, cell culture su pernates, and other biological fluids of rat, providing data to support research in a wide range of areas, including cytokine, metabolism, obesity, and others.
Research Area	Cytokine; Metabolism; Obesity

Specification

Sample Type	Serum; Plasma; Tissue homogenates; Cell lysates; Cell culture supernates; Other biological fluids
Detection Range	12.5-200 pg/mL
Sensitivity	4.9 pg/mL
Precision (Intra-assay)	CV<10%
Precision (Inter-assay)	CV<12%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Recovery	85-96%
Storage	Store at 2-8°C.

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