



Mouse fibroblast growth factor 21 (FGF21) ELISA kit (31.25-2000 pg/mL)

Cat. No.:	OB0625WXX-889
Assay Type:	Quantitative sandwich ELISA
Target Species:	Mouse
Assay Target:	FGF21
Size:	24T; 48T; 96T

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

Product Overview

Description

Mouse fibroblast growth factor 21 (FGF21) ELISA kit (31.25-2000 pg/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of FGF21 in mouse with a range of 31.25-2000 pg/mL and a specificity of 18.75 pg/mL.

Assay Principle

The micro ELISA plates in this kit are pre-coated with an antibody specific for mouse FGF21. Standards or samples are added to the wells of the microtiter plate to bind to the specific antibody. A biotinylated detection antibody specific for mouse FGF21 and avidin-horseradish peroxidase (HRP) conjugate are then added sequentially to each microplate well and incubated. The free components are washed away. Substrate solution is added to each well. Only wells containing mouse FGF21, biotinylated detection antibody, and avidin-HRP conjugate will appear blue. Upon addition of the termination solution, the enzyme-substrate reaction terminates, and the color changes to yellow. Optical density (OD) is measured spectrophotometrically at $450 \text{ nm} \pm 2 \text{ nm}$. The OD value is proportional to the concentration of mouse FGF21. The concentration of mouse FGF21 in the sample can be calculated by comparing the OD value of the sample with the standard curve.

**Background**

FGF21 is a member of the FGF family and is the primary endogenous agonist for the FGF21 receptor. It is involved in various physiological processes and is associated with obesity. Studies have found that treatment with FGF21 analogues can normalize glucose utilization in obese mice and have shown some anti-obesity effects.

Synonyms

FGF-21; Fgf21

Formula Weight

22,300 Da

Applications

Mouse fibroblast growth factor 21 (FGF21) ELISA kit (31.25-2000 pg/mL) is used to quantify FGF21 in serum, plasma, and other biological fluid samples of mouse, providing data to support a wide range of studies.

Research Area

Cytokine; Metabolism; Obesity research

Specification

Sample Type

Serum; Plasma; Other biological fluids

Detection Range

31.25-2000 pg/mL

Sensitivity

18.75 pg/mL

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 4°C.