



# Mouse Fibroblast growth factor 15(FGF15) ELISA kit

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| <b>Product Code</b>         | CSB-EL522052MO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Abbreviation</b>         | FGF15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Uniprot No.</b>          | O35622                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Product Type</b>         | ELISA Kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Immunogen Species</b>    | Mus musculus (Mouse)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Sample Types</b>         | serum, plasma, tissue homogenates, cell lysates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Detection Range</b>      | 15.6 pg/ml - 1000 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Sensitivity</b>          | 3.9 pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Assay Time</b>           | 1-5h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Sample Volume</b>        | 50-100ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Detection Wavelength</b> | 450 nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Lead Time</b>            | 3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Research Area</b>        | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Quality Control</b>      | <p>A microplate reader capable of measuring absorbance at 450 nm, with the correction wavelength set at 540 nm or 570 nm.</p> <p>An incubator can provide stable incubation conditions up to 37°C±5°C.</p> <p>Centrifuge</p> <p>Vortex</p> <p>Squirt bottle, manifold dispenser, or automated microplate washer</p> <p>Absorbent paper for blotting the microtiter plate</p> <p>50-300ul multi-channel micropipette</p> <p>Pipette tips</p> <p>Single-channel micropipette with different ranges</p> <p>100ml and 500ml graduated cylinders</p> <p>Deionized or distilled water</p> <p>Timer</p> <p>Test tubes for dilution</p> |
| <b>Gene Names</b>           | Fgf15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Tag Info</b>             | quantitative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Description</b>  | Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Component</b>            | <p>A micro ELISA plate --- The 96-well plate has been pre-coated with an anti-human FGF15 antibody. This dismountable microplate can be divided into 12 x 8 strip plates.</p> <p>Two vials lyophilized standard ---Dilute a bottle of the standard at dilution series, read the OD values, and then draw a standard curve.</p>                                                                                                                                                                                                                                                                                                  |



One vial Biotin-labeled FGF15 antibody (100 x concentrate) (120 µl/bottle) ---Act as the detection antibody.

One vial HRP-avidin (100 x concentrate) (120 µl/bottle) ---Bind to the detection antibody and react with the TMB substrate to make the solution chromogenic.

One vial Biotin-antibody Diluent (15 ml/bottle) ---Dilute the Biotin-antibody.

One vial HRP-avidin Diluent (15 ml/bottle) ---Dilute the HRP-avidin solution.

One vial Sample Diluent (50 ml/bottle)---Dilute the sample to an appropriate concentration.

One vial Wash Buffer (25 x concentrate) (20 ml/bottle) ---Wash away unbound or free substances.

One vial TMB Substrate (10 ml/bottle) ---Act as the chromogenic agent. TMB interacts with HRP, eliciting the solution turns blue.

One vial Stop Solution (10 ml/bottle) ---Stop the color reaction. The solution color immediately turns from blue to yellow.

Four Adhesive Strips (For 96 wells) --- Cover the microplate when incubation.  
An instruction manual

## Description

The Mouse Fibroblast growth factor 15 (FGF15) ELISA Kit is used for the quantitative detection of mouse FGF15 in many biological fluids, including serum, plasma, and tissue homogenates. The kit has high sensitivity, excellent specificity, good linearity, precision low than 10%, high recovery, good lot-to-lot consistency. Get access to more details from the product instructions.

This assay employs the Sandwich-ELISA technique, in which FGF15 in the samples or standards is sandwiched between pre-coated anti-human FGF15 and Biotin-labeled FGF15 antibody. The Ag-Ab-Ag immune complex is labeled with HRP-avidin and then develops a color reaction after the addition of the TMB substrate. The intensity of the color is positively correlated to the amount of FGF15 in the sample.

Mouse FGF15, an ortholog of human FGF19, is a bile acid (BA)-induced late fed-state gut hormone that mediates postprandial metabolic responses in the liver. It plays a key role in the bile acid-driven enterohepatic signaling. After a meal, the intestinal farnesoid X receptor (FXR) senses elevated bile acids to induce the expression of mouse FGF15. Secreted FGF15 acts on FGFR/KLB receptor complexes via repress CYP7A1 decrease BA synthesis, to stimulate glycogen synthase (GS) activity and glycogen production through inactivation of GSK3, and to inhibits gluconeogenesis by blocking the phosphorylation and activation of CREB. FGF15 thus acts after insulin in the transition from the fed to the fasted state.

## Msds

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