

## Bovine Fibroblast growth factor 21 (FGF21) ELISA Kit

Catalog No: #EK11914



Package Size: #EK11914-1 48T #EK11914-2 96T

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## Description

Product Name	Bovine Fibroblast growth factor 21 (FGF21) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:Request Information

Sensitivity:Request Information

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate FGF21 in samples. An antibody specific for FGF21 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyFGF21 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for FGF21 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of FGF21 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Fibroblast growth factor 21 is a member of the fibroblast growth factor (FGF) family. FGF21 stimulates glucose uptake in adipocytes but not in other cell types.This effect is additive to the activity of insulin. FGF21 treatment of adipocytes is associated with phosphorylation of FRS2, a protein linking FGF receptors to the Ras/MAP kinase pathway.FGF21 injection in ob/ob mice results in an increase in Glut1 in adipose tissue. FGF21 also protects animals from diet-induced obesity when overexpressed in transgenic mice and lowers blood glucose and triglyceride levels when administered to diabetic rodents. Treatment of animals with FGF21 results in increased energy expenditure, fat utilization and lipid excretion.

Note: This product is for in vitro research use only