abcam

Product datasheet

Bovine FGF1 ELISA Kit ab273195

1 Image

Overview

Product name Bovine FGF1 ELISA Kit

Detection method Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
Overall				< 10%

Inter-assay

Sample	n	Mean	SD	CV%
Overall				< 12%

Sample type Cell culture supernatant, Serum, Plasma

Assay type Sandwich (quantitative)

Sensitivity 0.2 ng/ml

Range 0.205 ng/ml - 50 ng/ml

Recovery

Sample specific recovery

Sample type	Average %	Range
Serum	127.4	104% - 126%
Plasma	124.3	74% - 147%
Cell culture media	136.9	121% - 147%

Assay duration Multiple steps standard assay

Species reactivity **Reacts with:** Cow

Product overview Bovine FGF1 ELISA kit is an *in vitro* enzyme linked immunosorbent assay for the quantitative measurement of bovine FGF1 in serum (bovine FGF1 concentration is low in normal serum/plasma, and may not be detectable in this assay), plasma and cell culture supernatants.

This assay employs an antibody specific for bovine FGF1 coated on a 96-well plate. Standards

and samples are pipetted into the wells and FGF1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-bovine FGF1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of FGF1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

Platform Pre-coated microplate (12 x 8 well strips)

Properties

Storage instructions Store at -20°C. Please refer to protocols.

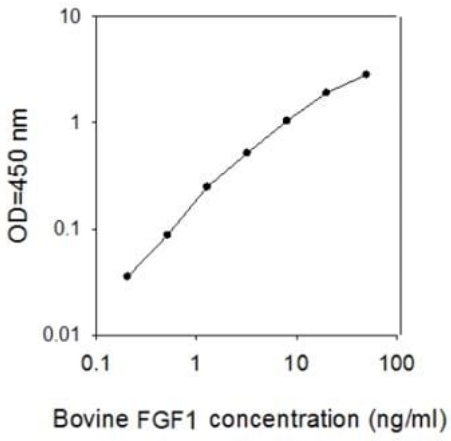
Components	1 x 96 tests
20X Wash Buffer	1 x 25ml
500X HRP-Streptavidin Concentrate	1 x 200µl
5X Assay Diluent	1 x 15ml
Anti-Bovine FGF1 coated Microplate (12 x 8 wells)	1 unit
Biotinylated Anti-Bovine FGF1 Antibody	2 vials
Bovine FGF1 Standard (Lyophilized)	2 vials
Stop Solution	1 x 8ml
TMB Substrate Solution	1 x 12ml

Function The heparin-binding fibroblast growth factors play important roles in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. They are potent mitogens in vitro.

Sequence similarities Belongs to the heparin-binding growth factors family.

Cellular localization Secreted. Cytoplasm. Cytoplasm > cell cortex. Lacks a cleavable signal sequence. Within the cytoplasm, it is transported to the cell membrane and then secreted by a non-classical pathway that requires Cu(2+) ions and S100A13. Secreted in a complex with SYT1.

Images



Example data

This standard curve is for demonstration only. A standard curve must be run with each assay.

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