Bovine Heparin-binding growth factor 2(FGF2) ELISA kit

Product Code	CSB-EL008625BO
Abbreviation	FGF2
Protein Biological Process 1	Angiogenesis
Target Name	fibroblast growth factor 2 (basic)
Uniprot No.	P03969
Alias	BFGF, FGFB, HBGF-2, basic fibroblast growth factor bFGF|fibroblast growth factor 2|heparin-binding growth factor 2|prostatropin
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
Protein Biological Process 3	Angiogenesis
Sample Types	serum, plasma, tissue homogenates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Cardiovascular
Gene Names	FGF2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Bovine FGF2 ELISA Kit was designed for the quantitative measurement of Bovine FGF2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL.
Target Details	This protein is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The

mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of bovine FGF2 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	92
	Range %	87-98
1:2	Average %	97
	Range %	93-102
1:4	Average %	84
	Range %	81-89
1:8	Average %	88
	Range %	83-95

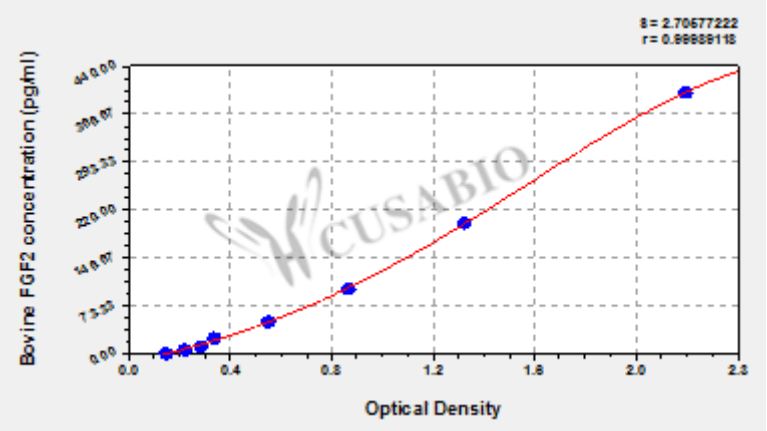
Recovery

The recovery of bovine FGF2 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	101	98-104
EDTA plasma (n=4)	92	89-97

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
400	2.082	2.212	2.147	1.991
200	1.298	1.302	1.300	1.144
100	0.826	0.885	0.856	0.700
50	0.527	0.564	0.546	0.390
25	0.341	0.344	0.343	0.187
12.5	0.288	0.298	0.293	0.137
6.25	0.229	0.232	0.231	0.075
0	0.152	0.160	0.156	?

Msds

{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL008625BO.pdf","filename":"MSDS"}}