



Bovine Interferon-Tau ELISA Kit

Product Code	CSB-E16948B
Abbreviation	IFN-tau
Target Name	Interferon-Tau
Uniprot No.	P15696
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
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	Others
Gene Names	IFNT1
Tag Info	quantitative
Protein Description	Sandwich

Description

The Bovine interferon-Tau (IFN-tau) ELISA Kit is an excellent choice for accurate quantification of bovine interferon-Tau in serum, plasma, and tissue homogenates. It provides a detection range of 6.25 pg/mL-400 pg/mL and a sensitivity of 1.56 pg/mL. This kit employs a Sandwich detection mechanism, which involves capturing the IFN-tau protein between two layers of antibodies: a capture antibody coated on the plate and a detection antibody that binds to the protein. This dual binding increases specificity and sensitivity, ensuring precise measurements. The assay requires 50-100 μ L of sample and has a duration of 1-5 hours, with detection at 450 nm wavelength. This kit has been cited in over 3 research papers.

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 interferon-tau 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 %	85
	Range %	82-92
1:2	Average %	98
	Range %	94-101
1:4	Average %	92
	Range %	87-98
1:8	Average %	95
	Range %	87-98

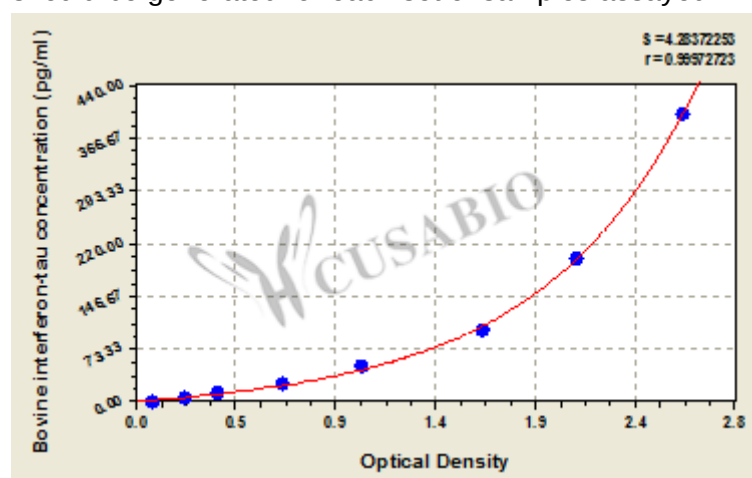
Recovery

The recovery of bovine interferon-tau 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)	94	90-96
EDTA plasma (n=4)	96	91-98

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	2.587	2.558	2.573	2.485
200	2.140	2.003	2.072	1.984
100	1.644	1.621	1.633	1.545
50	1.109	1.027	1.068	0.980
25	0.698	0.687	0.693	0.605
12.5	0.399	0.387	0.393	0.305
6.25	0.242	0.231	0.237	0.149
0	0.090	0.086	0.088	?

Msds

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