



Bovine Growth/differentiation factor 8(MSTN)

ELISA kit

Product Code	CSB-EL015057BO
Abbreviation	MSTN
Target Name	myostatin
Uniprot No.	O18836
Alias	GDF8, growth differentiation factor 8
Product Type	ELISA Kit
Immunogen Species	Bos taurus (Bovine)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	6.25 ng/mL-400 ng/mL
Sensitivity	1.56 ng/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	Signal Transduction
Gene Names	MSTN
Tag Info	quantitative
Protein Description	Sandwich
Description	This Bovine MSTN ELISA Kit was designed for the quantitative measurement of Bovine MSTN protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 6.25 ng/mL-400 ng/mL and the sensitivity is 1.56 ng/mL.
Target Details	This protein is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. This gene is thought to encode a secreted protein which negatively regulates skeletal muscle growth.
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 MSTN 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)
	Average %	88
1:1	Range %	82-93
	Average %	97
1:2	Range %	90-101
	Average %	98
1:4	Range %	88-103
	Average %	104
1:8	Range %	97-109

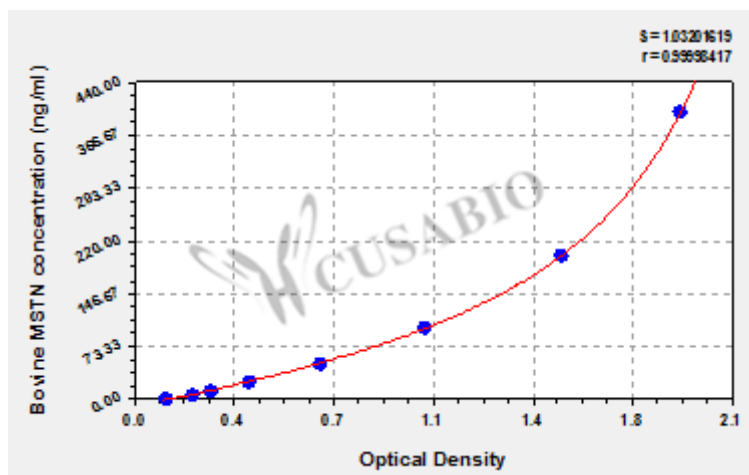
Recovery

The recovery of bovine MSTN 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)	99	91-105
EDTA plasma (n=4)	89	81-94

Typical

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



ng/ml	OD1	OD2	Average	Corrected
400	1.954	1.902	1.928	1.805
200	1.534	1.487	1.511	1.388
100	1.004	1.056	1.030	0.907
50	0.652	0.672	0.662	0.539
25	0.416	0.405	0.411	0.288
12.5	0.285	0.273	0.279	0.156
6.25	0.217	0.212	0.215	0.092
0	0.125	0.121	0.123	?

Msds

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