



# Bovine neuropeptide Y (NPY) ELISA kit

<b>Product Code</b>	CSB-E08171b
<b>Abbreviation</b>	NPY
<b>Target Name</b>	neuropeptide Y
<b>Uniprot No.</b>	Q6RUW3
<b>Alias</b>	PYY4, OTTHUMP00000201946 OTTHUMP00000201947
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Bos taurus (Bovine)
<b>Sample Types</b>	serum, plasma
<b>Detection Range</b>	0.312 ng/mL-20 ng/mL
<b>Sensitivity</b>	0.078 ng/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Neuroscience
<b>Gene Names</b>	NPY
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich

**Description**

This Bovine NPY ELISA Kit was designed for the quantitative measurement of Bovine NPY protein in serum, plasma. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.

**Target Details**

This gene encodes a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. The neuropeptide functions through G protein-coupled receptors to inhibit adenylyl cyclase, activate mitogen-activated protein kinase (MAPK), regulate intracellular calcium levels, and activate potassium channels. A polymorphism in this gene resulting in a change of leucine 7 to proline in the signal peptide is associated with elevated cholesterol levels, higher alcohol consumption, and may be a risk factor for various metabolic and cardiovascular diseases.

**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 NPY 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 %	90
	Range %	87-93
1:2	Average %	102
	Range %	98-105
1:4	Average %	90
	Range %	86-96
1:8	Average %	91
	Range %	88-97

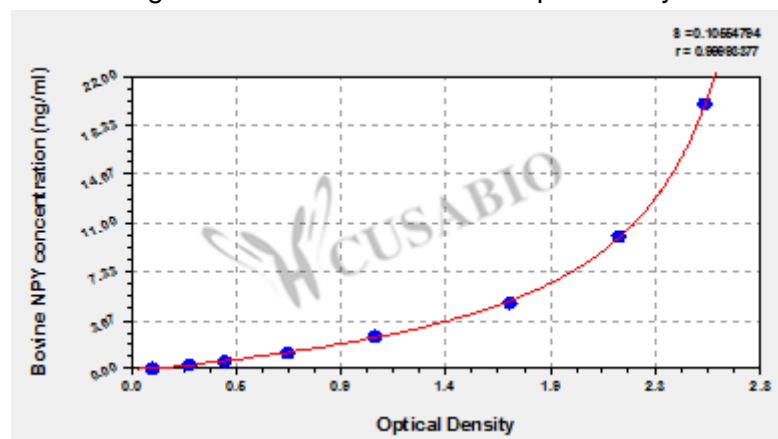
## Recovery

The recovery of bovine NPY 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)	90	86-94
EDTA plasma (n=4)	91	87-95

## 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
20	2.604	2.490	2.547	2.444
10	2.113	2.221	2.167	2.064
5	1.657	1.711	1.684	1.581
2.5	1.114	1.056	1.085	0.982
1.25	0.712	0.687	0.700	0.597
0.625	0.413	0.428	0.421	0.318
0.312	0.278	0.260	0.269	0.166
0	0.105	0.101	0.103	

## Msds

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