



Pig growth hormone,GH ELISA Kit

Product Code	CSB-E06813p
Abbreviation	GH1
Target Name	growth hormone 1
Uniprot No.	P01248
Alias	GH, GH-N, GHN, IGHD1B, hGH-N, pituitary growth hormone
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
Sample Types	serum, plasma, tissue homogenates
Detection Range	2.5 ng/mL-100 ng/mL
Sensitivity	2.5 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	GH1
Tag Info	quantitative
Protein Description	Competitive
Description	This Pig GH1 ELISA Kit was designed for the quantitative measurement of Pig GH1 protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 2.5 ng/mL-100 ng/mL and the sensitivity is 2.5 ng/mL.
Target Details	This protein is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Mutations in or deletions of the gene lead to growth hormone deficiency and short stature.
Product Precision	Intra-assay Precision (Precision within an assay): CV%<15%



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

Inter-assay Precision (Precision between assays): CV%<15%

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 pig GH 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 %	92
1:1	Range %	87-96
	Average %	95
1:2	Range %	89-100
	Average %	94
1:4	Range %	88-99
	Average %	95
1:8	Range %	90-103

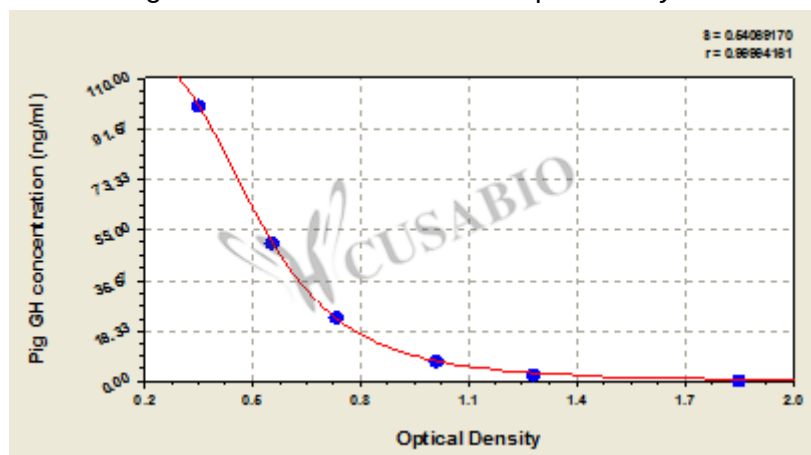
Recovery

The recovery of pig GH 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)	96	90-102
EDTA plasma (n=4)	98	92-103

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
0	1.905	1.834	1.870
2.5	1.298	1.282	1.290
7.5	1.024	1.004	1.014
23	0.739	0.722	0.731
50	0.567	0.531	0.549
100	0.342	0.338	0.340