



Mouse growth hormone,GH ELISA KIT

Product Code	CSB-E07343m
Abbreviation	GH1
Target Name	growth hormone 1
Uniprot No.	P06880
Alias	GH, GH-N, GHN, IGHD1B, hGH-N, pituitary growth hormone
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, cell culture supernates, cell lysates
Detection Range	3.12 pg/mL-200 pg/mL
Sensitivity	0.78 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	Signal Transduction
Gene Names	Gh1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse GH1 ELISA Kit was designed for the quantitative measurement of Mouse GH1 protein in serum, plasma, cell culture supernates, cell lysates. It is a Sandwich ELISA kit, its detection range is 3.12 pg/mL-200 pg/mL and the sensitivity is 0.78 pg/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%<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 mouse 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)
1:100	Average %	87
	Range %	82-93
1:200	Average %	99
	Range %	96-102
1:400	Average %	87
	Range %	84-91
1:800	Average %	84
	Range %	80-88

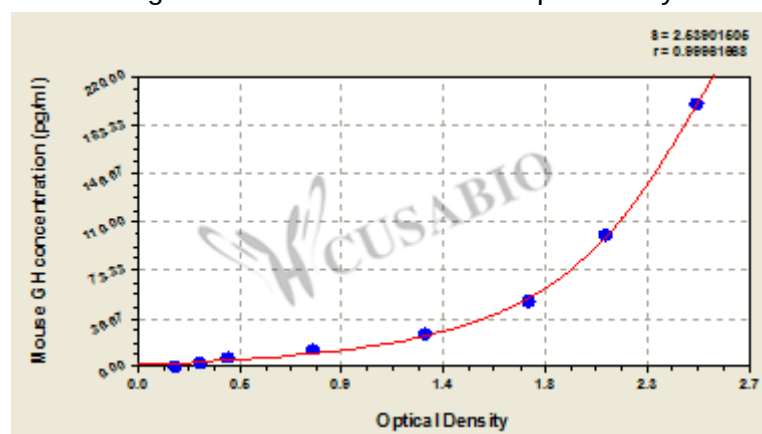
Recovery

The recovery of mouse 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)	93	90-96
EDTA plasma (n=4)	107	103-110

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
200	2.462	2.498	2.480	2.301
100	2.084	2.074	2.079	1.900
50	1.717	1.756	1.737	1.558
25	1.262	1.298	1.280	1.101
12.5	0.796	0.772	0.784	0.605
6.25	0.404	0.425	0.415	0.236
3.12	0.287	0.291	0.289	0.110
0	0.178	0.179	0.179	

Msds

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