



Rat growth hormone releasing hormone, GHRH ELISA Kit

Product Code	CSB-E06878r
Abbreviation	GHRH
Target Name	growth hormone releasing hormone
Uniprot No.	P09916
Alias	GHRF, GRF, MGC119781, OTTHUMP00000030915 growth hormone releasing factor sermorelin somatocrinin somatoliberin
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
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	Ghrh
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat GHRH ELISA Kit was designed for the quantitative measurement of Rat GHRH protein in serum, plasma, tissue homogenates. 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 belongs to the glucagon family and is a preproprotein that is produced in the hypothalamus. The preproprotein is cleaved to form a 44 aa factor, also called somatocrinin, that acts to stimulate growth hormone release from the pituitary. Variant receptors for somatocrinin have been found in several types of tumors, and antagonists of these receptors can inhibit the growth of the tumors. Defects in this gene are a cause of dwarfism, while hypersecretion of the encoded protein is a cause of gigantism.
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 rat GHRH 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 %	97
1:1	Range %	92-103
	Average %	92
1:2	Range %	85-99
	Average %	90
1:4	Range %	88-94
	Average %	101
1:8	Range %	96-105

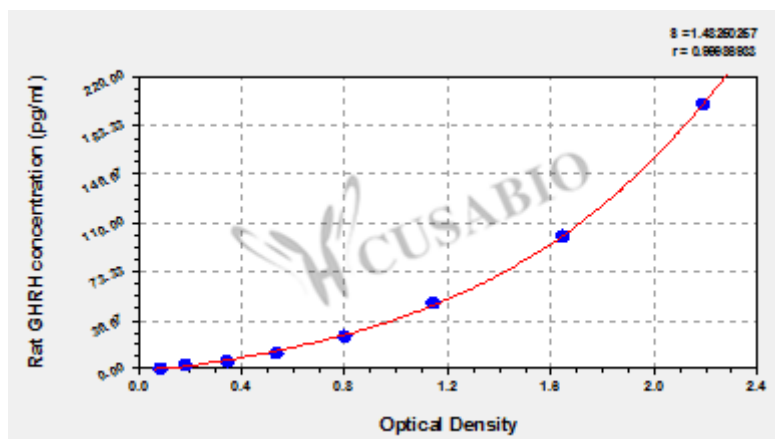
Recovery

The recovery of rat GHRH 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	87-95
EDTA plasma (n=4)	106	103-111

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	2.088	2.252	2.170	2.080
100	1.585	1.676	1.631	1.541
50	1.163	1.104	1.134	1.044
25	0.831	0.765	0.798	0.708
12.5	0.550	0.524	0.537	0.447
6.25	0.344	0.345	0.345	0.255
3.12	0.182	0.183	0.183	0.093
0	0.090	0.089	0.090	?

Msds

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