Sheep ghrelin/obestatin prepropeptide (GHRL) ELISA kit

Product Code	CSB-EL009414SH
Abbreviation	GHRL
Target Name	ghrelin/obestatin prepropeptide (GHRL)
Product Type	ELISA Kit
Immunogen Species	Ovis aries (Sheep)
Sample Types	serum, plasma, tissue homogenates
Detection Range	62.5 pg/mL-4000 pg/mL
Sensitivity	15.6 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	Cardiovascular
Tag Info	quantitative
Protein Description	Sandwich
Description	This Sheep GHRL ELISA Kit was designed for the quantitative measurement of Sheep GHRL protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 62.5 pg/mL-4000 pg/mL and the sensitivity is 15.6 pg/mL .
Target Details	This gene encodes ghrelin-obestatin preproprotein, which generates ghrelin and obestatin. Ghrelin is an endogenous ligand for the growth hormone secretagogue receptor and is involved in regulating growth hormone release. Obestatin was initially reported to be an endogenous ligand for the orphan G protein-coupled receptor GPR39 and was involved in satiety and decreased food intake; however, these findings are controversial. Recent reports show that obestatin is involved in inhibiting thirst and anxiety, improving memory, regulating sleep, affecting cell proliferation, and increasing the secretion of pancreatic juice enzymes. Alternative promoters and alternative splicing result in multiple transcript variants, some of which encode different protein isoforms and some of which do not encode a protein but may regulate the ghrelin-obestatin preproprotein expression. In addition, antisense transcripts for this gene have been identified and may also function in regulation of the ghrelin-obestatin preproprotein expression.

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 sheep GHRL 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 %	93
	Range %	88-98
1:2	Average %	97
	Range %	92-102
1:4	Average %	100
	Range %	94-106
1:8	Average %	95
	Range %	89-100

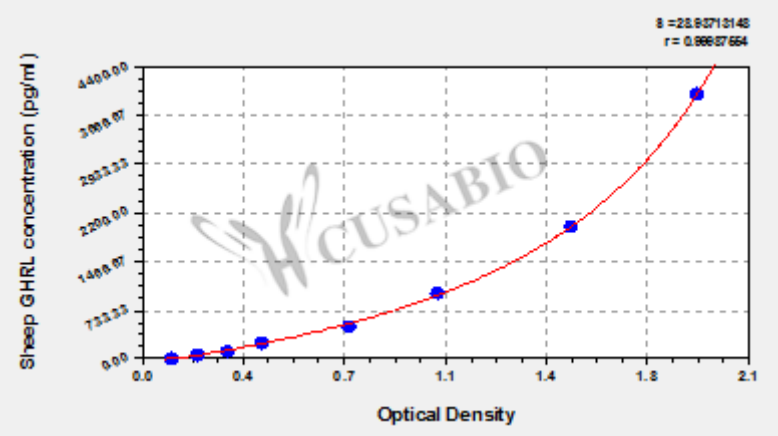
Recovery

The recovery of sheep GHRL 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)	101	95-105
EDTA plasma (n=4)	94	89-102

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
4000	1.901	2.011	1.956	1.840
2000	1.456	1.580	1.518	1.402
1000	1.033	1.064	1.049	0.933
500	0.722	0.753	0.738	0.622
250	0.424	0.432	0.428	0.312
125	0.302	0.321	0.312	0.196
62.5	0.207	0.201	0.204	0.088
0	0.112	0.120	0.116	?

Msds	{"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL009414SH.pdf","filename":"MSDS"}}