



Rat gastric inhibitory polypeptide (Gip) ELISA kit

Product Code	CSB-E17969r
Abbreviation	Gip
Target Name	gastric inhibitory polypeptide (Gip)
Uniprot No.	Q06145
Alias	glucose-dependent insulintropic polypeptide
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, tissue homogenates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 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	Gip
Tag Info	quantitative
Protein Description	Sandwich

Description

This Rat Gip ELISA Kit was designed for the quantitative measurement of Rat Gip protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL .

Target Details

This gene encodes an incretin hormone and belongs to the glucagon superfamily. The encoded protein is important in maintaining glucose homeostasis as it is a potent stimulator of insulin secretion from pancreatic beta-cells following food ingestion and nutrient absorption. This gene stimulates insulin secretion via its G protein-coupled receptor activation of adenylyl cyclase and other signal transduction pathways. It is a relatively poor inhibitor of gastric acid secretion.

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 Gip 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 %	87-96
1:2	Average %	99
	Range %	93-105
1:4	Average %	90
	Range %	85-94
1:8	Average %	84
	Range %	80-88

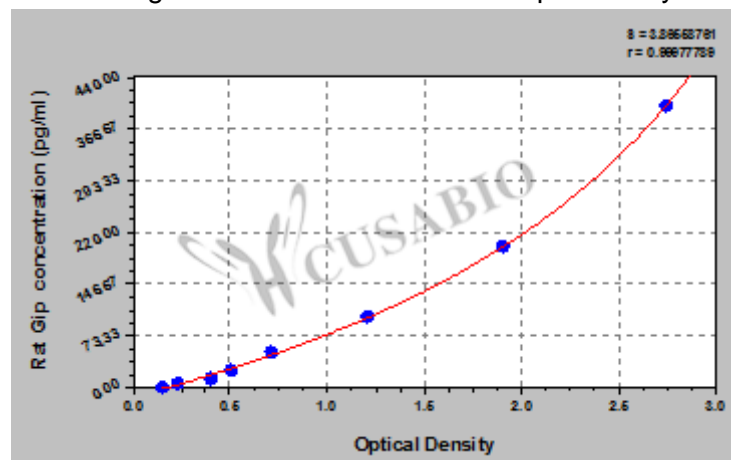
Recovery

The recovery of rat Gip 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)	97	92-102
EDTA plasma (n=4)	95	90-99

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
400	2.812	2.732	2.772	2.599
200	1.965	1.901	1.933	1.760
100	1.215	1.247	1.231	1.058
50	0.713	0.753	0.733	0.560
25	0.516	0.531	0.524	0.351
12.5	0.433	0.409	0.421	0.248
6.25	0.257	0.241	0.249	0.076
0	0.176	0.169	0.173	?

Msds

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