



Pig Glucagon(GC) ELISA Kit

Product Code	CSB-E04854p
Abbreviation	GCG
Target Name	glucagon
Uniprot No.	P01274
Alias	GLP1, GLP2, GRPP, glicentin-related polypeptide glucagon-like peptide 1 glucagon-like peptide 2
Product Type	ELISA Kit
Immunogen Species	Sus scrofa (Pig)
Sample Types	serum, plasma, tissue homogenates
Detection Range	125 pg/mL-2000 pg/mL
Sensitivity	62.5 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	Metabolism
Gene Names	GCG
Tag Info	quantitative
Protein Description	Competitive

Description

This Pig GCG ELISA Kit was designed for the quantitative measurement of Pig GCG protein in serum, plasma, tissue homogenates. It is a Competitive ELISA kit, its detection range is 125 pg/mL-2000 pg/mL and the sensitivity is 62.5 pg/mL .

Target Details

This protein is actually a preproprotein that is cleaved into four distinct mature peptides. One of these, glucagon, is a pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a specific G-protein linked receptor whose signalling pathway controls cell proliferation. Two of the other peptides are secreted from gut endocrine cells and promote nutrient absorption through distinct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon.

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 GC 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 %	91
1:1	Range %	85-96
	Average %	95
1:2	Range %	92-102
	Average %	84
1:4	Range %	80-88
	Average %	90
1:8	Range %	85-96

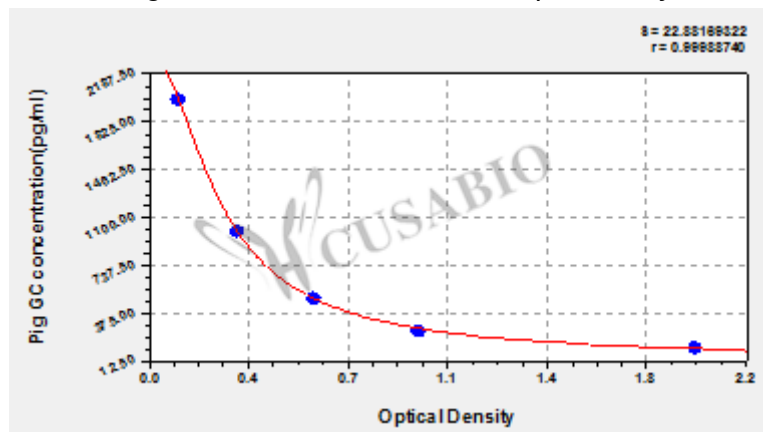
Recovery

The recovery of pig GC 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	87-97
EDTA plasma (n=4)	96	90-103

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
2000	0.120	0.111	0.116
1000	0.315	0.340	0.328
500	0.601	0.611	0.606
250	1.018	0.945	0.982
125	2.036	1.923	1.980