



Mouse Glucagon (GC) ELISA Kit

Product Code	CSB-E15775m
Abbreviation	GCG
Target Name	glucagon
Uniprot No.	P55095
Alias	GLP1, GLP2, GRPP, glicentin-related polypeptide glucagon-like peptide 1 glucagon-like peptide 2
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates
Detection Range	1.56 pg/mL-100 pg/mL
Sensitivity	0.39 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	Sandwich

Description

This Mouse GCG ELISA Kit was designed for the quantitative measurement of Mouse GCG protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.56 pg/mL-100 pg/mL and the sensitivity is 0.39 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%<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 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)
1:5	Average %	92
	Range %	88-98
1:10	Average %	97
	Range %	93-110
1:20	Average %	95
	Range %	88-100
1:40	Average %	95
	Range %	82-104

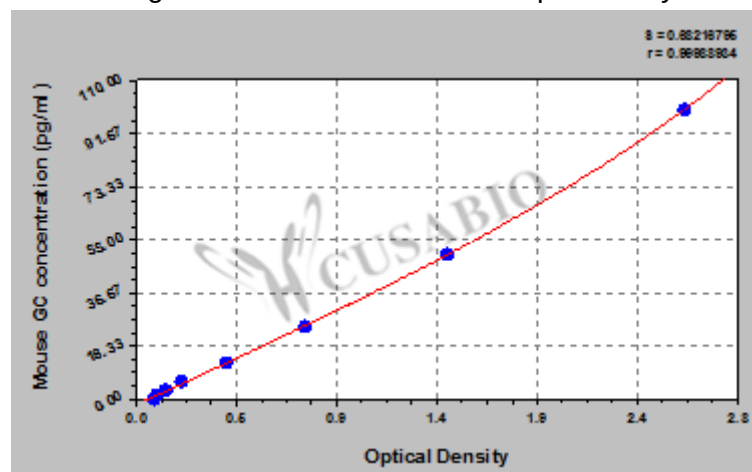
Recovery

The recovery of mouse 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)	94	85-99
EDTA plasma (n=4)	95	86-102

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
100	2.564	2.592	2.578	2.489
50	1.439	1.488	1.464	1.375
25	0.805	0.792	0.799	0.710
12.5	0.421	0.432	0.427	0.338
6.25	0.214	0.223	0.219	0.130
3.12	0.146	0.150	0.148	0.059
1.56	0.102	0.105	0.104	0.015
0	0.088	0.090	0.089	

Msds

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