



Bovine glucagon (GCG) ELISA kit (0.1 ng/mL)

Cat. No.:	0126WXX-84
Assay Type:	Quantitative competitive ELISA
Target Species:	Bovine
Assay Target:	GCG
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description

Bovine glucagon (GCG) ELISA kit (0.1 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of GCG in bovine samples with a minimum detectable dose (sensitivity) of 0.1 ng/mL. The kit is highly sensitive and easy to use.

Assay Principle

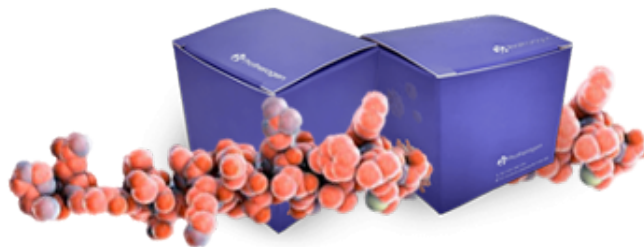
This kit utilizes a competitive enzyme immunoassay technique. A monoclonal anti-GCG antibody is pre-coated onto a microplate. In each well, GCG from the sample and a fixed amount of GCG-HRP conjugate compete for antibody binding sites. Following a one-hour incubation, unbound components are washed away. A substrate is added, triggering an enzymatic reaction that produces a blue color, turning yellow upon the addition of a stop solution. The absorbance is measured at 450 nm, and the intensity is inversely proportional to the GCG concentration in the sample.

Background

Glucagon is a hormone secreted by A cells of the islets of Langerhans, playing a pivotal role in glucose metabolism and homeostasis. Its primary function is to regulate blood glucose levels by promoting gluconeogenesis and inhibiting glycolysis. The dynamic equilibrium between glucagon and insulin is crucial for maintaining healthy metabolism. The detection of glucagon and analysis of its associated pathways provide key insights into understanding and treating obesity.

Synonyms

GLP1; GLP2; GRPP; Glicentin-related polypeptide; Glucagen; Oxyntomodulin; Incretin hormone; GC



Formula Weight	20,909 Da
Applications	Bovine glucagon (GCG) ELISA kit (0.1 ng/mL) is used to quantify GCG in serum, plasma, cell culture supernatants, body fluid, and tissue homogenate of bovine, providing data to support research in a wide range of areas, including endocrinology, obesity, metabolism, and others.
Research Area	Endocrinology; Obesity; Metabolism

Specification

Sample Type	Serum; Plasma; Cell culture supernatants; Body fluid; Tissue homogenate
Detection Range	2.5-50ng/mL
Sensitivity	0.1 ng/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Recovery	92-101%
Storage	Store at 2-8°C.