



Goat growth hormone (GH) ELISA kit (6.25-100 ng/mL)

Cat. No.:	0126WXX-135
Assay Type:	Quantitative competitive ELISA
Target Species:	Goat
Assay Target:	GH
Size:	24T; 48T; 96T

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

Product Overview

Description

Goat growth hormone (GH) ELISA kit (6.25-100 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of GH in goat samples with a range of 6.25-100 ng/mL and a minimum detectable dose (sensitivity) of 3.12 ng/mL. The kit is highly sensitive and easy to use.

Assay Principle

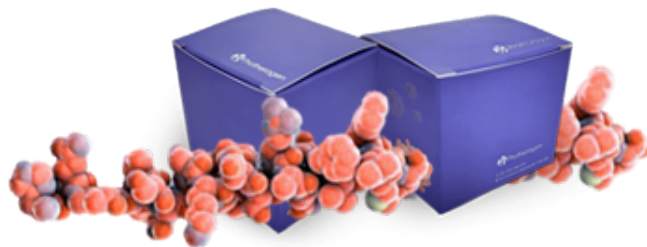
This kit employs the competitive inhibition enzyme immunoassay technique. An antibody specific to GH is pre-coated onto the microplate. Standards or samples are added along with biotin-conjugated GH. A competitive reaction is launched between the sample GH and biotin-conjugated GH for the pre-coated antibody. After incubation, avidin-HRP is added to each well. Color develops in inverse proportion to the concentration of GH in the sample. The reaction is terminated, and the color intensity is recorded.

Background

Growth hormone (GH) is a crucial endocrine hormone that plays a key role in growth regulation and metabolic control. It primarily promotes bodily growth by stimulating the liver and other tissues to secrete insulin-like growth factor-1 (IGF-1), while also enhancing amino acid uptake and protein synthesis. Deficiencies in GH can lead to growth hormone deficiency disorders, such as dwarfism. Research indicates that GH induces lipolysis through direct lipolytic effects in adipose tissue and influences obesity to a certain extent.

Synonyms

GH1; GH-N; GHN; hGH-N; Somatotropin; Hygetropin; Jintropin; Kigtropin; Pituitary growth hormone; Growth hormone, normal



Formula Weight	24,631 Da
Applications	Goat growth hormone (GH) ELISA kit (6.25-100 ng/mL) is used to quantify GH in serum, plasma, and tissue homogenates of goat, providing data to support research in a wide range of areas, including developmental biology, obesity, endocrinology, neuroscience, metabolism, and others.
Research Area	Developmental biology; Obesity; Endocrinology; Neuroscience; Metabolism

Specification

Sample Type	Serum; Plasma; Tissue homogenates
Detection Range	6.25-100 ng/mL
Sensitivity	3.12 ng/mL
Precision (Intra-assay)	CV<8%
Precision (Inter-assay)	CV<10%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.