



Horse growth hormone (GH) ELISA kit (25-400 ng/mL)

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| Cat. No.: | 0126WXX-136 |
| Assay Type: | Quantitative competitive ELISA |
| Target Species: | Horse |
| Assay Target: | GH |
| Size: | 24T; 48T; 96T |

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

Product Overview

Description

Horse growth hormone (GH) ELISA kit (25-400 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of GH in horse samples with a range of 25-400 ng/mL and a minimum detectable dose (sensitivity) of <25 ng/mL. The kit is highly sensitive and easy to use.

Assay Principle

This kit uses competitive inhibition enzyme immunoassay technology. The microtiter plate is pre-immobilized with a GH-specific antibody. Standards or samples are introduced into the wells along with biotin-conjugated GH. The endogenous GH competes with the biotin-conjugated GH for the pre-coated antibody sites; thus, higher GH levels result in less bound biotin-conjugate. Following a wash step, avidin-HRP and substrate solution are added. Color develops in inverse proportion to the GH concentration in the sample. The reaction is stopped, and the color intensity is measured.

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.



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| Synonyms | GH1; GH-N; GHN; hGH-N; Somatotropin; Hygetropin; Jintropin; Kigtropin; Pituitary growth hormone; Growth hormone, normal |
| Formula Weight | 24,423 Da |
| Applications | Horse growth hormone (GH) ELISA kit (25-400 ng/mL) is used to quantify GH in serum, plasma, and tissue homogenates of horse, 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

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| Sample Type | Serum; Plasma; Tissue homogenates |
| Detection Range | 25-400 ng/mL |
| Sensitivity | <25 ng/mL |
| Precision (Intra-assay) | CV<15% |
| Precision (Inter-assay) | CV<15% |
| Cross-reactivity | No significant cross-reactivity or interference was observed. |
| Storage | Store at 2-8°C. |