



Goat insulin (INS) ELISA kit (3.12-100 mIU/L)

Cat. No.:	0126WXX-558
Assay Type:	Quantitative ELISA
Target Species:	Goat
Assay Target:	INS
Size:	1 kit

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

Product Overview

Description	Goat insulin (INS) ELISA kit (3.12-100 mIU/L) is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of INS in goat samples with a range of 3.12-100 mIU/L and a minimum detectable dose (sensitivity) of 1.0 mIU/L. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on INS antibody-INS antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect INS antigen targets in samples.
Background	INS is a hormone composed of an A chain and a B chain linked by two disulfide bonds. Secreted by the pancreas, it functions as a key regulator of metabolism within the body. Its primary role is to lower blood glucose levels by promoting glucose uptake into cells. INS is fundamentally linked to obesity through its role in energy metabolism and its relationship with insulin resistance. By targeting the insulin receptor signaling pathway and the diverse metabolic processes it regulates, researchers can develop novel anti-obesity therapies.
Synonyms	Pancreatic insulin
Formula Weight	11,981 Da
Applications	Goat insulin (INS) ELISA kit (3.12-100 mIU/L) is used to quantify INS in serum, plasma, tissue homogenates, feces, urine, and body fluids of goat, providing data to support research in a wide range of areas, including metabolic pathway, endocrinology, hormone metabolism, obesity, etc.



Research Area Metabolic pathway; Endocrinology; Hormone metabolism; Obesity

Specification

Sample Type	Serum; Plasma; Tissue homogenate; Feces; Urine; Body fluids
Detection Range	3.12-100 mIU/L
Sensitivity	1.0 mIU/L
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.