



Canine neuroendocrine secretory protein 55 (NESP55) ELISA kit-Quantitative sandwich

Cat. No.:	0126WXX-234
Assay Type:	Quantitative sandwich ELISA
Target Species:	Canine
Assay Target:	NESP55
Size:	48T; 96T

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

Product Overview

Description

Canine neuroendocrine secretory protein 55 (NESP55) ELISA kit is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of NESP55 in canine samples. The kit is highly sensitive and easy to use.

Assay Principle

This assay employs a two-site sandwich ELISA technique to quantify NESP55. A microplate is pre-coated with an antibody specific to NESP55. Standards and samples are pipetted into the wells, where NESP55 is captured by the immobilized antibody. After washing away unbound substances, a biotin-conjugated detection antibody specific for NESP55 is added. Following another wash, streptavidin-conjugated HRP is introduced. After a final wash to remove any unbound reagents, a substrate solution is added; color develops in direct proportion to the amount of NESP55 bound in the initial step. The reaction is terminated, and the color intensity is measured.

Background

NESP55 is a protein expressed in multiple neuroendocrine tissues, particularly in the pancreas, adrenal medulla, and hypothalamus. It belongs to a protein family known as NESP, whose members are genetically closely linked and whose expression is regulated by a specific epigenetic mechanism—imprinted genes. As an imprinted gene product, its expression is influenced by parental origin and may serve as a potential regulator of energy balance, obesity, and others.

Synonyms

GNAS; AHO; GSA; GSP; POH; GPSA; NESP; GNAS1; PHP1A; PHP1B; PHP1C; C20orf45

Formula Weight

45,665 Da

**Applications**

Canine neuroendocrine secretory protein 55 (NESP55) ELISA kit is used to quantify NESP55 in serum, plasma, and other biological fluids of canine, providing data to support research in a wide range of areas, including endocrinology, epigenetic regulation, obesity, and others.

Research Area

Endocrinology; Epigenetic regulation; Obesity

Specification

Sample Type

Serum; Plasma; Other biological fluids

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 2-8°C.