



Porcine peptide YY (PYY) ELISA kit (15.63-1000 pg/mL)

Cat. No.:	0126WXX-1670
Assay Type:	Quantitative sandwich ELISA
Target Species:	Porcine
Assay Target:	PYY
Size:	24T; 48T; 96T

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

Product Overview

Description	Porcine peptide YY (PYY) ELISA kit (15.63-1000 pg/mL) is an ELISA-based <i>in vi tro</i> research tool designed specifically for the quantitative detection of PYY in porcine samples with a range of 15.63-1000 pg/mL and a minimum detectable dose (sensitivity) of 9.38 pg/mL. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on PYY antibody-PYY antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PYY antigen targets in samples.
Background	PYY (Peptide YY), a critical gut peptide and member of the NPY family located at chromosomal position 17q21.1, serves as a fundamental regulator in the physiological landscape of obesity and digestive homeostasis. Secreted into the extracellular region as two distinct isoforms through alternative splicing, this neuropeptide hormone exerts its biological influence primarily through G-protein coupled receptor signaling pathways to modulate eating behavior and appetite regulation. Its multifaceted role in the gastrointestinal tract includes the inhibition of exocrine pancreatic secretion, the mediation of vasoconstrictory actions, and the suppression of jejunal and colonic motility, thereby slowing digestion to enhance satiety. Beyond its classical endocrine functions in feeding behavior, PYY is also implicated in broader cellular processes such as cell proliferation and cytoskeleton organization.
Synonyms	Peptide YY-like



Formula Weight	10,360 Da
Applications	Porcine peptide YY (PYY) ELISA kit (15.63-1000 pg/mL) is used to quantify PYY in serum, plasma, and other biological fluids of porcine, providing data to support research in a wide range of areas, including neuroscience, hepatology, obesity, and others.
Research Area	Neuro science; Hepatology; Obesity

Specification

Sample Type	Serum; Plasma; Other biological fluids
Detection Range	15.63-1000 pg/mL
Sensitivity	9.38 pg/mL
Precision (Intra-assay)	CV<10%
Precision (Inter-assay)	CV<12%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.