



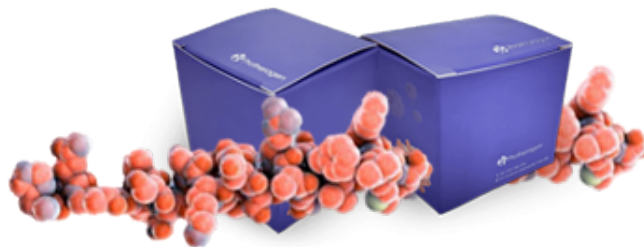
Cavy prostaglandin E synthase 2 (PTGES2) ELISA kit-Quantitative sandwich

Cat. No.:	0126WXX-1601
Assay Type:	Quantitative sandwich ELISA
Target Species:	Cavy
Assay Target:	PTGES2
Size:	1 kit

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

Product Overview

Description	Cavy prostaglandin E synthase 2 (PTGES2) ELISA kit-Quantitative sandwich is an E LISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of PTGES2 in cavy samples. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on PTGES2 antibody-PTGES2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PTGES2 antigen targets in samples.
Background	PTGES2, an isomerase, catalyzes the conversion of unstable prostaglandin H ₂ (PGH ₂) into biologically active prostaglandin E ₂ (PGE ₂). PGE ₂ serves as a crucial lipid signaling molecule involved in diverse physiological processes, including inflammation, pain, fever, immune regulation, and metabolism. In obesity research, PTGES2 and its product PGE ₂ are closely linked, primarily in the context of adipose tissue inflammation and metabolic dysfunction. As one of the rate-limiting steps in PGE ₂ synthesis, PTGES2 represents a potential target connecting obesity-induced inflammatory responses to systemic metabolic imbalance.
Synonyms	C9orf15; Prostaglandin-H(2) E-isomerase; MPGE synthase-2; EC 5.3.99.3; MPGES-2; PGES2; Gamma-interferon-activated transcriptional element-binding factor 1; Membrane-associated prostaglandin E synthase 2; Membrane-associated prostaglandin E synthase-2; Microsomal prostaglandin E synthase-2; Microsomal prostaglandin E synthase 2; Chromosome 9 open reading frame 15; GATE-binding factor 1; GBF-1; GBF1
EC NO.	5.3.99.3

**Formula Weight**

41,943 Da

Applications

Cavy prostaglandin E synthase 2 (PTGES2) ELISA kit-Quantitative sandwich is used to quantify PTGES2 in cavy samples, providing data to support research in a wide range of areas, including inflammation and immunology, metabolism, obesity, and others.

Research Area

Inflammation and Immunology; Metabolism; Obesity

Specification

Sample Type

Cavy samples

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 2-8°C.