



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

<b>Cat. No.:</b>	0126WXX-1596
<b>Assay Type:</b>	Quantitative sandwich ELISA
<b>Target Species:</b>	Bovine
<b>Assay Target:</b>	PTGES2
<b>Size:</b>	48T; 96T

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

### Product Overview

#### Description

Bovine prostaglandin E synthase 2 (PTGES2) ELISA kit-Quantitative sandwich is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of PTGES2 in porcine 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<sub>2</sub> (PGH<sub>2</sub>) into biologically active prostaglandin E<sub>2</sub> (PGE<sub>2</sub>). PGE<sub>2</sub> serves as a crucial lipid signaling molecule involved in diverse physiological processes, including in inflammation, pain, fever, immune regulation, and metabolism. In obesity research, PTGES2 and its product PGE<sub>2</sub> are closely linked, primarily in the context of adipose tissue inflammation and metabolic dysfunction. As one of the rate-limiting steps in PGE<sub>2</sub> 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



<b>EC NO.</b>	5.3.99.3
<b>Formula Weight</b>	41,943 Da
<b>Applications</b>	Bovine prostaglandin E synthase 2 (PTGES2) ELISA kit-Quantitative sandwich is used to quantify PTGES2 in bovine samples, providing data to support research in a wide range of areas, including inflammation and immunology, metabolism, obesity, and others.
<b>Research Area</b>	Inflammation and Immunology; Metabolism; Obesity

## Specification

<b>Sample Type</b>	Bovine samples
<b>Cross-reactivity</b>	No significant cross-reactivity or interference was observed.
<b>Storage</b>	Store at 2-8°C.