

# PGE<sub>2</sub> high sensitivity ELISA kit

Ultrasensitive PGE<sub>2</sub> ELISA kit for  
inflammation and eicosanoid research.

The PGE<sub>2</sub> high sensitivity ELISA kit is a colorimetric competitive enzyme immunoassay kit with results overnight + 1 hour.

Prostaglandin E<sub>2</sub> (PGE<sub>2</sub>) is an extensively studied prostaglandin owing to its predominance in inflammation, cancer, atherosclerosis, autoimmune disease, and sepsis. Oxidation of arachidonic acid by prostaglandin synthases (COX-1 and COX-2) produces prostaglandin H<sub>2</sub> (PGH<sub>2</sub>), which is further metabolized by PGE synthases into its major product, PGE<sub>2</sub>. PGE<sub>2</sub> mediates autocrine and paracrine signaling by binding to G-protein coupled receptors (EP1, EP2, EP3, EP4) on the cell surface, functioning to modulate phospholipase C and adenylate cyclase activity. PGE<sub>2</sub> has been of great interest as a therapeutic target, either by modulation of its synthesis by COX inhibitors (NSAIDs) or by modulation of its receptors by downregulation or binding antagonists. PGE<sub>2</sub> production in a variety of tissues has been shown to modulate numerous physiological processes including natriuresis in the kidney, smooth muscle elasticity in the vasculature, and the inflammatory response to damaged tissues by monocytes and macrophages.

Citations: 60

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## Ordering Information

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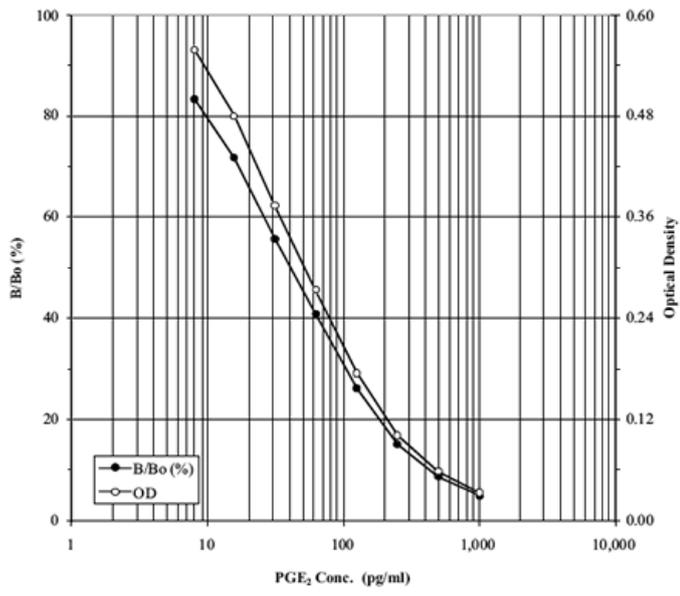
ADI-930-001

96 wells

## Manuals, SDS & CofA

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- Ultrasensitive measurement, detecting as little as 8.26 pg/ml PGE<sub>2</sub>
- Validated in a wide variety of sample matrices
- Reliable and reproducible results lot-after-lot and day-after-day
- Fully quantitative results that surpass semi-quantitative Western blot analysis



## Handling & Storage

**Use/Stability** Store all components at +4°C, except standard and conjugate at -20°C.

**Shipping** Blue Ice

**Regulatory Status** RUO - Research Use Only

## Product Details

**Alternative Name** Prostaglandin E2

**Application** Colorimetric detection, ELISA

**Application Notes** For the quantitative determination of PGE<sub>2</sub> in culture supernatants, serum, saliva, urine, and whole blood from any species. Cited sample types include plasma.

**Assay Time** Overnight + 1 hour

**Compatibility** This product is compatible with the [Absorbance 96 Plate Reader](#).

**Contents** GxM IgG Microtiter plate, Conjugate, Antibody, Assay buffer, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution

**Sensitivity** 8.26 pg/ml (range 7.8 – 1,000 pg/ml)

**Species Reactivity** Species independent

**Wavelength** 405 nm



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