PGE2 ELISA kit

Highly sensitive PGE_2 ELISA kit for inflammation and eicosanoid research

The PGE_2 EIA kit is a colorimetric competitive enzyme immunoassay kit with results in < 3 hours. Absorbance is read at 405 nm. Screen inhibitors of COX II activity by measuring the levels of downstream PGE_2. Commercially available since 1992, this kit is widely cited in peer-reviewed publications. The non-radioactive ready-to-use liquid color-coded reagents reduce errors.

Prostaglandin E_2 (PGE_2) 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 H2 (PGH_2), which is further metabolized by PGE synthases into its major product, PGE_2. PGE_2 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_2 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_2 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: 195 View Online »

- Highly sensitive measurement, detecting as little as 13.4 pg/ml PGE_2
- Higher throughput format with results in <3 hrs for up to 37 samples in duplicate
- Widely cited in peer reviewed literature
- Ready-to-use liquid color-coded reagents reduce errors
- Reproducible results day-after-day and lot-to-lot
- Save with bulk kit package!

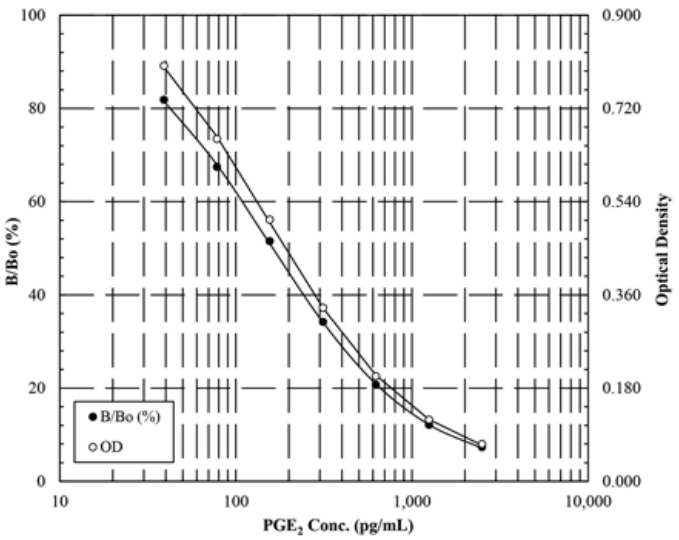
Ordering Information

Order Online »

ADI-901-001	5x96 wells

Manuals, SDS & CofA

View Online »


100
80
60
40
20
0
0.900
0.720
0.540
0.360
0.180
0.000
B/Bo (%)
Optical Density
B/Bo (%)
OD
10
100
1,000
10,000
PGE2 Conc. (pg/mL)

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_2 in culture supernatants, serum, saliva, urine, and whole blood from any species. Cited sample types include cerebral spinal fluid, dialysate, gingival crevicular fluid, peritoneal exudate fluid and peritoneal exudate cell supernatant, plasma, and tissue.
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	GxM Microtiter plate, Conjugate, Antibody, Assay buffer concentrate, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution
Sensitivity	13.4 pg/ml (range 39.1 – 2,500 pg/ml)
Species Reactivity	Species independent
Wavelength	405 nm

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