PGE_2 high sensitivity ELISA kit

Ultrasensitive PGE_2 ELISA kit for inflammation and eicosanoid research.

The PGE_2 high sensitivity ELISA kit is a colorimetric competitive enzyme immunoassay kit with results overnight + 1 hour.

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: 60 View Online »

Ordering Information

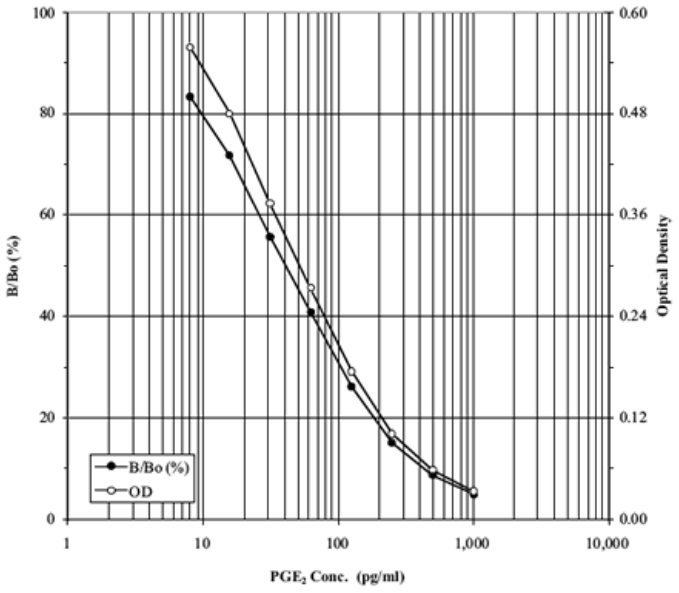
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ADI-930-001	96 wells

Manuals, SDS & CofA

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- Ultrasensitive measurement, detecting as little as 8.26 pg/ml PGE_2
- 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


100
80
60
40
20
0
B/Bo (%)
0.60
0.48
0.36
0.24
0.12
0.00
Optical Density
B/Bo (%)
OD
1
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 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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