PGE_2 FPIA kit

The PGE_2 FPIA kit is a homogeneous mix-and-read fluorescence polarization enzyme immunoassay kit

The PGE_2 FPIA kit is a homogeneous mix-and-read fluorescence polarization enzyme immunoassay kit with. Results are obtained within just 30 minutes and the generated signal is stable for up to 20 hours. The PGE $_2$ FPIA kit is ideal for high throughput screening (HTS) applications. A convenient homogeneous mix-and-read assay that is amendable to miniaturization and automation, this kit has a robust Z factor >0.8.

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: 1 View Online »

Ordering Information

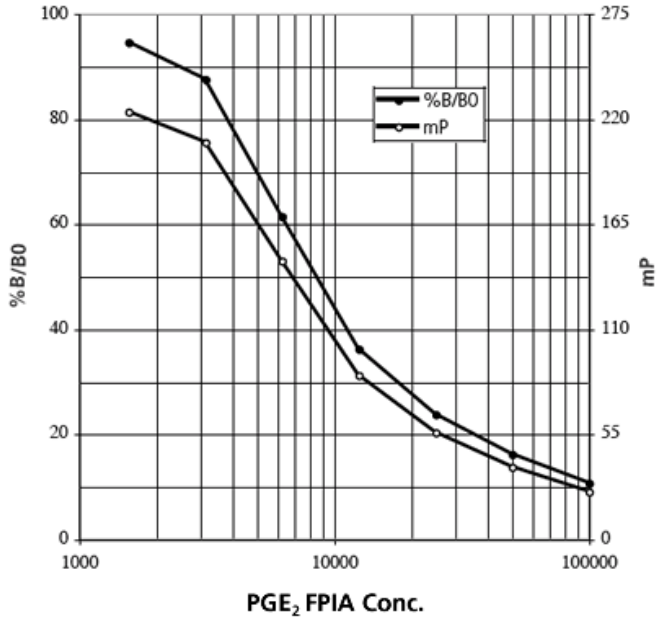
Order Online »

ADI-920-001	100 tests

Manuals, SDS & CofA

View Online »

- Higher throughput - homogeneous mix-and-read assay
- Flexible - signal generated can be read after 30 minutes or several hours
- Robust - Z' Factor >0.8


100
80
60
40
20
0
%B/B0
275
220
165
110
55
0
mP
%B/B0
mP
1000
10000
100000
PGE2 FPIA Conc.

Handling & Storage

Use/Stability	Store all components at 4°C, except standard and conjugate concentrate at -20°C.
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Prostaglandin E2
Application	Fluorescence microscopy
Application Notes	For the quantitative determination of PGE_2 in culture supernatants from any species.
Assay Time	30 minutes
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	Conjugate concentrate, Antibody, Assay buffer concentrate, Standard
Sensitivity	684 pg/ml (range 1,562 – 100,000 pg/ml)
Species Reactivity	Species independent

Last modified: May 29, 2024

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