6-keto-PGF$_{1\alpha}$ ELISA kit

Highly sensitive ELISA, detecting as low as 1.40 pg/ml in just 3 hours.

The 6-keto-PGF$_{1\alpha}$ EIA kit is a colorimetric competitive enzyme immunoassay kit with results in < 3 hours. Absorbance is read at 405 nm. This is a highly specific kit with low cross-reactivity to structurally related molecules. The 6-keto-PGF$_{1\alpha}$ EIA kit has been fully validated in-house in a wide variety of sample matrices.

6-keto-PGF$_{1\alpha}$ is a stable hydrolysis product of prostacyclin (PGI$_2$). Due to the short half-life of PGI$_2$ in buffer (2-3 minutes) the production of prostacyclin is typically monitored by measurement of the 6-keto-PGF$_{1\alpha}$ metabolite and its derivative in urine, 2,3-dinor-6-keto-PGF$_{1\alpha}$. PGI$_2$ has autocoid functions that include platelet aggregation, inhibition of vasoconstrictor responses to pressor hormones, platelet anti- and disaggregatory properties, and reproductive functions. The effects are induced by receptor-mediated elevation of cAMP. Prostacyclin has clinical applications in atherosclerosis and protection from myocardial ischemia.

Citations: 28 View Online »

Ordering Information

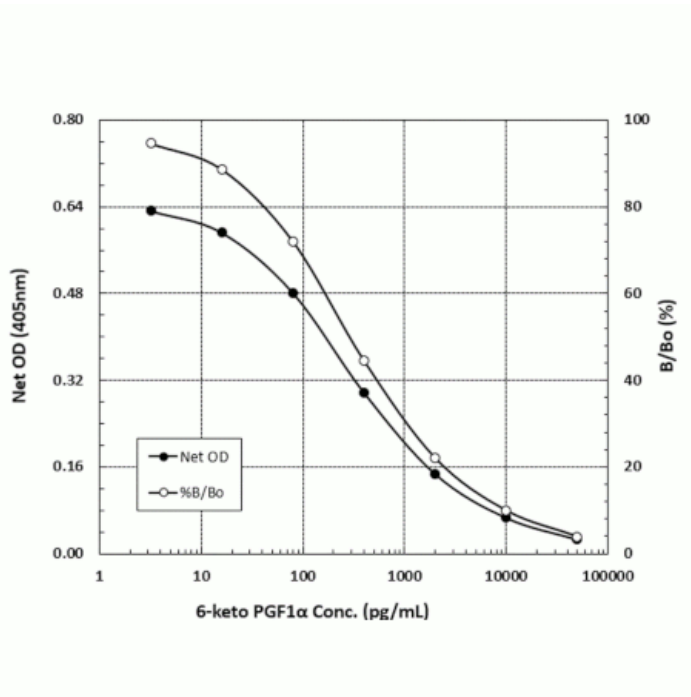
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ADI-900-004	96 wells

Manuals, SDS & CofA

View Online »

- Fast results from up to 38 samples in duplicate in just 3 hours
- Highly specific with low cross-reactivity with structurally related molecules
- Reliable and fully validated in-house with a variety of matrices
- Widely published in peer-reviewed journals


0.80
0.64
0.48
0.32
0.16
0.00
100
80
60
40
20
0
Net OD (405nm)
B/Bo (%)
Net OD
%B/Bo
1
10
100
1000
10000
100000
6-keto PGF1α Conc. (pg/mL)

Handling & Storage

Long Term Storage	+4°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	6-keto Prostaglandin F1α
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of 6-keto-$PGF_{1\alpha}$ in culture supernatants, serum, saliva, and urine from any species.
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	DxS IgG Microtiter plate, Conjugate, Antibody, Assay buffer, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution
Sensitivity	1.40 pg/ml (range 3.2 – 50,000 pg/ml)
Species Reactivity	Species independent
Wavelength	405 nm

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