Urinary prostacyclin ELISA kit

The Urinary Prostacyclin ELISA kit is a colorimetric competitive enzyme immunoassay kit

The Urinary Prostacyclin EIA kit is a colorimetric competitive enzyme immunoassay kit with results in < 3 hours. Absorbance is read at 405 nm. Quantitate PGI_2 by measuring the stable metabolites in one simple assay.

Prostacyclin (PGI2) is involved in platelet aggregation, vasoconstriction, and reproductive functions. PGI_2 has a half life of 60 minutes in plasma but only 2 to 3 minutes in buffer. The production of PGI_2 is typically monitored by measurement of 6-keto-$PGF_{1\alpha}$ and 2,3-dinor-6-keto-$PGF_{1\alpha}$. 6-keto-$PGF_{1\alpha}$ is produced by the non-enzymatic hydration of PGI_2, and is further metabolized in urine to the 2,3-dinor derivative. A number of pharmaceuticals alter and/or inhibit the synthesis of PGI_2. Methods to measure PGI_2 in urine typically involve HPLC, gas chromatography/mass spectrometry, or radioimmunoassay and enzyme immunoassay for 6-keto-$PGF_{1\alpha}$. The conversion of PGI_2 into 6-keto-$PGF_{1\alpha}$ and 2,3-dinor-6-keto-$PGF_{1\alpha}$ is shown below.

Citations: 8 View Online »

Ordering Information

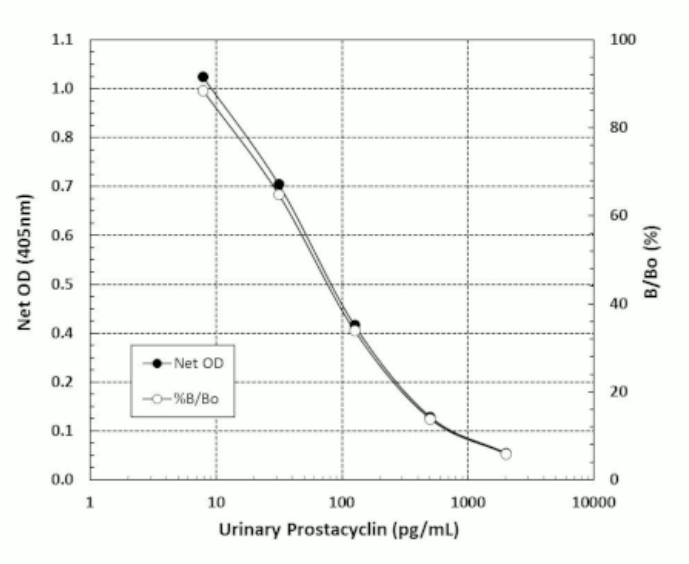
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ADI-900-025	96 wells

Manuals, SDS & CofA

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- Quantitate PGI_2 - measuring the stable breakdown products 6-keto-$PGF_{1\alpha}$ and 2,3-dinor-6keto-$PGF_{1\alpha}$ in one simple assay
- Less stress - much easier than GC/MS with results from up to 39 samples in duplicate in under 3 hours
- Specific - low cross-reactivity with related eicosanoids


Net OD (405nm)
B/Bo (%)
Urinary Prostacyclin (pg/mL)
Net OD
%B/Bo
1.1
1.0
0.8
0.7
0.6
0.5
0.4
0.2
0.1
0.0
100
80
60
40
20
0
1
10
100
1000
10000

Handling & Storage

Long Term Storage +4°C

Shipping Blue Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name	PGI2, Prostaglandin I2
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of urinary prostacyclin metabolites in culture supernatants and urine from any species.
Assay Time	<3 hours
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	6.58 pg/ml (range 7.81 – 2,000 pg/ml)
Species Reactivity	Species independent
Wavelength	405 nm

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