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

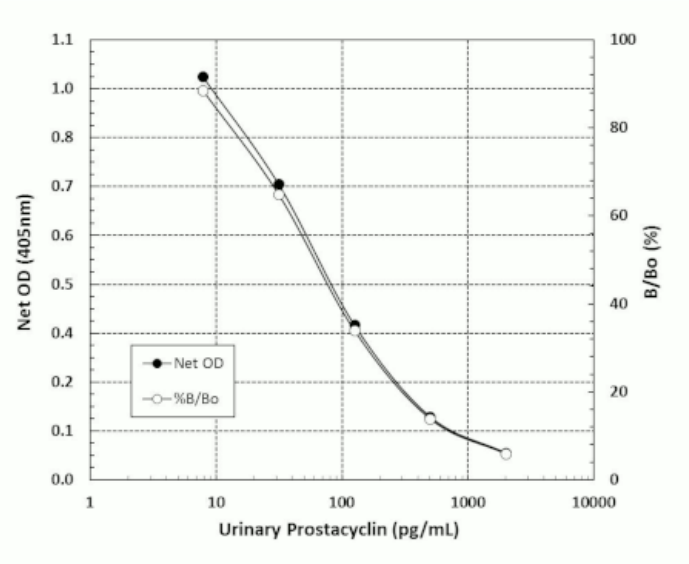
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ADI-901-025	5x96 wells

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
- Save with bulk kit package!


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 Microtiter plate, Conjugate, Antibody, Assay buffer concentrate, 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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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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