15-deoxy-$\Delta^{12,14}$-PGJ_2 ELISA kit

First-to-market 15-d-PGJ_2 ELISA commercially available for eicosanoid research.

The 15-deoxy-$\Delta^{12,14}$-PGJ_2 ELISA kit is a colorimetric competitive enzyme immunoassay kit with results in 5 hours. Absorbance is read at 405 nm. This kit saves time and is much less time consuming than GC/MS analysis. Ready-to-use liquid color-coded reagents reduce laboratory error.

15-deoxy-$\Delta^{12,14}$-Prostaglandin J_2 (15-d-PGJ_2) is one of the ultimate dehydration products of PGD_2, formed via the intermediate Δ^{12}-PGJ_2. 15-d-PGJ_2 is physiologically present in body fluids at concentration of 10^{-12} to 10^{-9} M, but increases dramatically under stress such as infection and inflammation. 15-d-PGJ_2 exerts both pro- and anti-inflammatory effects in a cell-type and concentration-dependent manner, with many of these effects mediated via binding to the γ isoform of the peroxisome proliferators-activated receptor (PPAR-γ). 15-d-PGJ_2 appears to induce HO-1 expression by a PPAR-γ-independent mechanism mediated by the generation of reactive oxygen species (ROS).

Citations: 32 View Online »

Ordering Information

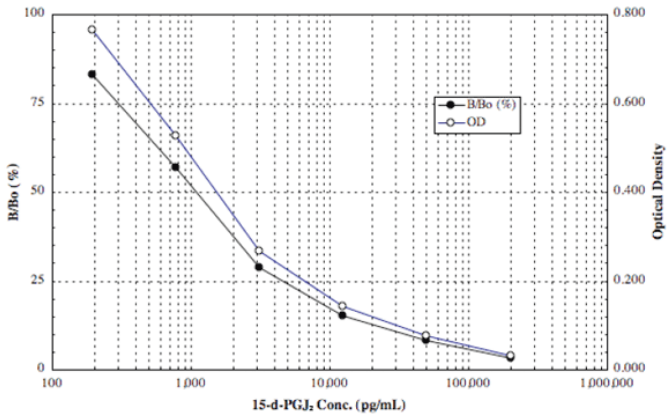
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ADI-900-023	96 wells

Manuals, SDS & CofA

View Online »

- High sensitivity, measuring as low as 36.8 pg/ml
- Fast results, much less time consuming than GC/MS analysis
- Simple and ready-to-use liquid color-coded reagents reduce error
- Fully quantitative results that surpass semi-quantitative Western blot analysis


100
75
50
25
0
B/Bo (%)
0.800
0.600
0.400
0.200
0.000
Optical Density
B/Bo (%)
OD
100
1,000
10,000
100,000
1,000,000
15-d-PGJ2 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	15-deoxy-Δ12,14-Prostaglandin J2, 15-d-PGJ2
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of 15-deoxy-$\Delta^{12,14}$-PGJ_2 in culture supernatants, plasma, saliva, and urine from any species.
Assay Time	5 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	GxR IgG Microtiter plate, Conjugate, Antibody, Assay buffer, Wash buffer concentrate, Standard, pNpp Substrate, Stop solution
Sensitivity	36.8 pg/ml (range 195 – 200,000 pg/ml)
Species Reactivity	Species independent
Wavelength	405 nm

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