

## 15-Deoxy-delta 12,14-prostaglandin J2 (15d-PGJ2) ELISA Kit

Catalogue No.:abx351111

15-Deoxy-delta 12,14-prostaglandin J2 (15d-PGJ2) ELISA Kit is an ELISA Kit for the in vitro quantitative measurement of 15-Deoxy-delta 12,14-prostaglandin J2 concentrations in serum, plasma and other biological fluids.

Target:	15-Deoxy-delta 12,14-prostaglandin J2 (15d-PGJ2)
Reactivity:	General
Tested Applications:	ELISA
Recommended dilutions:	Optimal dilutions/concentrations should be determined by the end user.
Storage:	Shipped at 4 °C. Upon receipt, store the kit according to the storage instruction in the kit's manual.
Validity:	The validity for this kit is at least 6 months. Up to 12 months validity can be provided on request.
Stability:	The stability of the kit is determined by the rate of activity loss. The loss rate is less than 5% within the expiration date under appropriate storage conditions. To minimize performance fluctuations, operation procedures and lab conditions should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same user throughout.
Test Range:	3.125 ng/ml - 200 ng/ml
Sensitivity:	1.88 ng/ml
Standard Form:	Lyophilized
Detection Method:	Colorimetric
Assay Type:	Competitive
Assay Data:	Quantitative
Sample Type:	Serum, plasma and other biological fluids.
Target Type:	Antigen



Detection Reagent A and Detection Reagent B with Diluent A and Diluent B, respectively, at 1:100.



Assay Procedure:	<ul> <li>This procedure is provided for reference only. The product manual may differ slightly. The product should be used as stated on the product manual included and delivered together with the product.</li> <li>1) Set standard, test samples and control wells.</li> <li>2) Aliquot 50 µl of diluted standard into the standard wells.</li> <li>3) Aliquot 50 µl of Standard Diluent buffer into the control (zero) well.</li> <li>4) Aliquot 50 µl of diluted samples into the sample wells.</li> <li>5) Immediately aliquot 50 µl of Detection Reagent A to each well. Incubate for 1 hr at 37 °C.</li> <li>6) Wash 3 times.</li> <li>7) Aliquot 100 µl of Detection Reagent B to each well. Incubate for 30 mins at 37 °C.</li> <li>8) Wash 5 times.</li> <li>9) Aliquot 90 µl of TMB Substrate to each well. Incubate for 10-20 mins at 37 °C.</li> <li>10) Aliquot 50 µl of Stop Solution.</li> <li>11) Measure the OD at 450 nm.</li> </ul>
Protocol:	<ul> <li>This procedure is provided for reference only. The product manual may differ slightly. The product should be used as stated on the product manual included and delivered together with the product.</li> <li>Equilibrate the kit components and samples to room temperature (18 - 25 °C) before use. It is recommended to plot a standard curve for each test.</li> <li>1. Set standard, test sample and control (zero) wells on the pre-coated plate respectively, and then, record their positions. It is recommended to measure each standard and sample at least in duplicate.</li> <li>2. Add 50 µL of each standard, control and sample into the appropriate wells.</li> <li>3. Remove the cover and discard the liquid.</li> <li>4. Immediately aliquot 50 µl of Detection Reagent A working solution. Seal the plate with a cover and incubate for 1 h at 37°C.</li> <li>5. Remove the cover and discard the solution. Wash the plate 3 times with 1X Wash Buffer.</li> <li>6. Add 100 µL of Detection Reagent B working solution into each well, seal and incubate at 37°C for 30 min.</li> <li>7. Discard the solution and wash the plate 5 times with wash buffer as explained in previous step.</li> <li>8. Aliguot 90 µl of TMB Substrate into each well. Seal the plate with a cover and incubate at 37°C</li> </ul>
Results Calculation:	<ul> <li>8. Anduot 90 µ of 1MB Substrate into each well. Sear the plate with a cover and incubate at 37 C for 10-20 min. Avoid exposure to light. The incubation time is for reference use only, the optimal time should be determined by end user. Do not exceed 30 min.</li> <li>9. Add 50 µL of Stop Solution to each well. Read at 450 nm immediately. This assay is competitive, therefore there is an inverse correlation between 15d-PGJ2 concentration in the sample and the absorbance measured. Create a graph with the log of the standard concentration (y-axis) and average absorbance measured (x-axis). Apply a best fit trendline through the standard points. The 15d-PGJ2 concentration of the samples can be interpolated from the standard curve.</li> </ul>



Assay Precision:	<ul> <li>Intra-assay Precision (Precision within an assay): 3 samples with low, medium and high levels of 15-Deoxy-delta 12,14-prostaglandin J2 (15d-PGJ2) were were tested 20 times on one plate, respectively.</li> <li>Inter-assay Precision (Precision between assays): 3 samples with low, medium and high levels of 15-Deoxy-delta 12,14-prostaglandin J2 (15d-PGJ2) were tested on 3 different plates, 8 replicates in each plate.</li> <li>CV (%) = (Standard Deviation / mean) × 100</li> <li>Intra-Assay: CV&lt;10%</li> </ul>
Note:	Inter-Assay: CV<10% THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES. The range and sensitivity is subject to change. Please contact us for the latest product information. For accurate results, sample concentrations must be diluted to mid-range of the kit. If you require a specific range, please contact us in advance or write your request in your order comments. Please note that our kits are optimised for detection of native samples, rather than recombinant proteins. We are unable to guarantee detection of recombinant proteins, as they may have different sequences or tertiary structures to the native protein.