

Human PGE2 (Prostaglandin E2) ELISA Kit | PGE2 elisa kit

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CATALOG #
AAA27546

REACTIVITY
Human

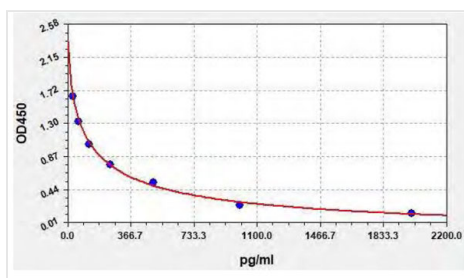
PRODUCT SYNONYMS

PGE2 (Prostaglandin E2); Human PGE2 (Prostaglandin E2) ELISA Kit; PG-E2; PGE2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize PGE2, no obvious cross reaction with other analogues
Assay Type	Competitive
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PGE2 elisa kit	Background: Prostaglandin E2 (PGE2) is an important bioactive molecule and a member of the prostaglandin family. It is generated from arachidonic acid (AA) by the action of cyclooxygenase (COX). PGE2 is widely present in the Mammals body and can regulate various physiological and pathological processes, such as inflammation, immune response, pain perception, temperature regulation, and modulation of cardiovascular and digestive system function. PGE2 exerts its effects by binding to its four different types of receptors (EP1, EP2, EP3, EP4). Different types of receptors have distinct signal transduction pathways and functions, including regulation of cell proliferation, apoptosis, migration, invasion, cytokine release, and ion channel modulation. PGE2 plays an important role in the occurrence and development of many diseases, including inflammatory diseases, cancer, and cardiovascular diseases. Therefore, PGE2 and its receptors are important targets for researching and developing disease treatments. Principle of the Assay: This kit was based on Competitive-ELISA detection method. The microtiter plate provided in this kit has been precoated with PGE2. During the reaction, PGE2 in the sample or standard competes with a fixed amount of PGE2 on the solid phase supporter for sites on the Biotinylated Detection Antibody specific to PGE2. Excess conjugate and unbound sample or standard are washed from the plate, and HRP-Streptavidin (SABC) is added to each microplate well and incubated. Then TMB substrate solution is added to each well. The enzyme-substrate reaction is terminated by the addition of a acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm. The concentration of PGE2 in the samples is then determined by comparing the OD of the samples to the standard curve. The concentration of the target substance was inversely proportional to the OD450 value.
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/pge2-prostaglandin-e2/27546>