

Urinary Isoprostane Assay Kit

Urinary Isoprostane EIA Kit

CATALOG #
AAA14174

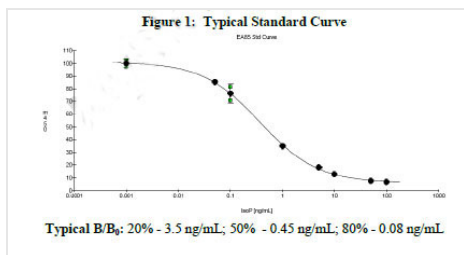
PRODUCT SYNONYMS

Urinary Isoprostane; Urinary Isoprostane EIA Kit; Urinary Isoprostane ELISA Kit; Urinary Isoprostane assay kit

PRODUCT SPECIFICATIONS

Assay Type	Competitive
Preparation and Storage	1. Store this kit and its components at 4 degree C until use. 2. Do not freeze.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Urinary Isoprostane assay kit

Principle of the Assay: This kit is a competitive enzyme-linked immunoassay (ELISA) for determining levels of 15-isoprostane F2t (the best characterized isoprostane) in urine samples. Briefly, urine samples are mixed with an enhanced dilution buffer that essentially eliminates interference due to non-specific binding. The 15-isoprostane F2t in the samples or standards competes with 15-isoprostane F2t conjugated to horseradish peroxidase (HRP) for binding to a polyclonal antibody specific for 15-isoprostane F2t coated on the microplate. The HRP activity results in color development when substrate is added, with the intensity of the color proportional to the amount of 15-isoprostane F2t-HRP bound and inversely proportional to the amount of unconjugated 15-isoprostane F2t in the samples or standards.

Background/Introduction: Isoprostanes are prostaglandin-like compounds that are produced by free radical mediated peroxidation of lipoproteins. This kit is for the quantification of 15-isoprostane F2t (also known as 8-epi-PGF2alpha or 8-iso-PGF2alpha) in urine samples. Levels of 15-isoprostane F2t in urine are useful for the non-invasive assessment of oxidant stress in vivo. 15-isoprostane F2t has also been shown to be a potent vasoconstrictor in rat kidneys and rabbit lungs, and plays a causative role in atherogenesis. Elevated isoprostane levels are associated with hepatorenal syndrome, rheumatoid arthritis, atherosclerosis and carcinogenesis.

References

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- Roberts II, L.J., Morrow, J.D., (2000) Free Radic. Biol. Med. 28:505-513
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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/assay-kits/urinary-isoprostane/14174>