

## Bovine Prostaglandin F2 Alpha (PGF2a) ELISA Kit

Catalog No: #EK8552



Package Size: #EK8552-1 48T #EK8552-2 96T

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## Description

Product Name	Bovine Prostaglandin F2 Alpha (PGF2a) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	PGF2A; PGF2-A; PG-F2a
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:9.88-800 pg/mL

Sensitivity:3.88 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate PGF2a in samples. An antibody specific for PGF2a has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPGF2a present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PGF2a is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PGF2a bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**One of the prostaglandins, a group of hormone-like substances that participate in a wide range of body functions such as the contraction and relaxation of smooth muscle, the dilation and constriction of blood vessels, control of blood pressure, and modulation of inflammation.

Prostaglandin F2-alpha(PGF-2 alpha) is a stable prostaglandin that stimulates the contraction of uterine and bronchial smooth muscle and produces vasoconstriction (tightening) in some blood vessels.

As a pharmaceutical, the generic name of PGF-2 alpha is dinoprost. It is used for the induction of abortion, for evacuation of the uterus after a missed abortion, and in the treatment of hydatidiform mole.

Note: This product is for in vitro research use only